
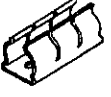














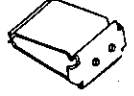




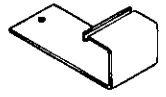


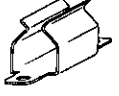






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## SPRING CLIPS

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Solder Lugs

Spring Clips

Spring Washers

Shoulder Washers

Stand Off Spacers

Flat Round Washers - Metallic

Flat Round Washers - Non-Metallic

O-Rings

Retaining Rings

Lockwashers, Retention Washers & Push-on Nuts

Clamps & Brackets

Expansion Plugs

Ground Straps, Bus Bars & Term. Blocks

Tab & Notch Washers

Misc. Washers & Tags

Solid State Insulators

Military Standards

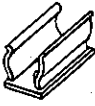






Custom Parts








Engineering Tables

Num. & Alpha. Index of Parts

# ILLUSTRATED TABLE OF CONTENTS

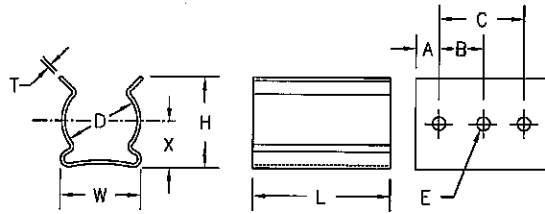
## SPRING CLIPS

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# SPRING CLIPS *(Continued)*

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	C ±.005	NO. OF HOLES
4521-10-20-*	.100	.200	.010	.230	.160	.112	.071	.100	—	—	1
4521-10-30-*	.100	.300	.010	.230	.160	.112	.071	.150	—	—	1
4521-10-40-*	.100	.400	.010	.230	.160	.112	.071	.200	—	—	1
4521-10-50-*	.100	.500	.010	.230	.160	.112	.071	.100	.300	—	2
4521-10-60-*	.100	.600	.010	.230	.160	.112	.071	.150	.300	—	2
4521-10-80-*	.100	.800	.010	.230	.160	.112	.071	.200	.400	—	2
4521-10-100-*	.100	1.000	.010	.230	.160	.112	.071	.200	.600	—	2
4522-12-20-*	.120	.200	.008	.240	.180	.125	.071	.100	—	—	1
4521-12-20-*	.120	.200	.010	.240	.180	.125	.071	.100	—	—	1
4521-12-30-*	.120	.300	.010	.240	.180	.125	.071	.150	—	—	1
4521-12-40-*	.120	.400	.010	.240	.180	.125	.071	.200	—	—	1
4521-12-50-*	.120	.500	.010	.240	.180	.125	.071	.100	.300	—	2
4521-12-60-*	.120	.600	.010	.240	.180	.125	.071	.150	.300	—	2
4521-12-80-*	.120	.800	.010	.240	.180	.125	.071	.200	.400	—	2
4521-12-100-*	.120	1.000	.010	.240	.180	.125	.071	.200	.600	—	2
4521-14-20-*	.140	.200	.010	.260	.200	.129	.071	.100	—	—	1
4521-14-30-*	.140	.300	.010	.260	.200	.129	.071	.150	—	—	1
4522-14-30-*	.140	.300	.015	.260	.210	.129	.071	.150	—	—	1
4521-14-40-*	.140	.400	.010	.260	.200	.129	.071	.200	—	—	1
4521-14-50-*	.140	.500	.010	.260	.200	.129	.071	.100	.300	—	2
4521-14-60-*	.140	.600	.010	.260	.200	.129	.071	.150	.300	—	2
4521-14-80-*	.140	.800	.010	.260	.200	.129	.071	.200	.400	—	2
4521-14-100-*	.140	1.000	.010	.260	.200	.129	.071	.200	.600	—	2
4522-16-20-*	.160	.200	.008	.260	.210	.139	.071	.100	—	—	1
4521-16-20-*	.160	.200	.010	.260	.210	.139	.071	.100	—	—	1
4521-16-30-*	.160	.300	.010	.260	.210	.139	.071	.150	—	—	1
4521-16-40-*	.160	.400	.010	.260	.210	.139	.071	.200	—	—	1
4521-16-50-*	.160	.500	.010	.260	.210	.139	.071	.100	.300	—	2
4521-16-60-*	.160	.600	.010	.260	.210	.139	.071	.150	.300	—	2
4521-16-80-*	.160	.800	.010	.260	.210	.139	.071	.200	.400	—	2
4521-16-100-*	.160	1.000	.010	.260	.210	.139	.071	.200	.600	—	2
4521-16-120-*	.160	1.200	.010	.260	.210	.139	.071	.300	.600	—	2
4521-16-140-*	.160	1.400	.010	.260	.210	.139	.071	.300	.800	—	2
4521-18-20-*	.180	.200	.010	.270	.220	.150	.071	.100	—	—	1
4521-18-25-*	.180	.250	.010	.270	.220	.150	.071	.125	—	—	1

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

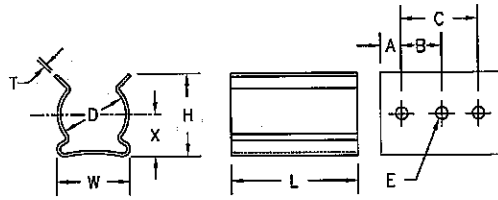
- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

- Solder Lugs
- Spring Clips
- Spring Washers
- Shoulder Washers
- Stand Off Spacers
- Flat Round Washers - Metallic
- Flat Round Washers - Non-Metallic
- O-Rings
- Retaining Rings
- Lockwashers, Retention Washers & Push-on Nuts
- Clamps & Brackets
- Expansion Plugs
- Ground Straps, Bus Bars & Term. Blocks
- Tab & Notch Washers
- Misc. Washers & Tags
- Solid State Insulators
- Military Standards
- Custom Parts
- Engineering Tables
- Num. & Alpha. Index of Parts

# SPRING CLIPS (Continued)

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	C ±.005	NO. OF HOLES
4522-18-25-*	.180	.250	.010	.270	.220	.150	.093	.125	—	—	1
4521-18-30-*	.180	.300	.010	.270	.220	.150	.071	.150	—	—	1
4522-18-31-*	.180	.312	.010	.270	.220	.150	.065	.156	—	—	1
4521-18-31-*	.180	.312	.010	.270	.220	.150	.071	.062	.187	—	2
4521-18-37-*	.180	.375	.010	.270	.220	.150	.071	.187	—	—	1
4522-18-37-*	.180	.375	.010	.270	.220	.150	.071	.109	.156	—	2
4521-18-40-*	.180	.400	.010	.270	.220	.150	.071	.200	—	—	1
4522-18-40-*	.180	.400	.010	.270	.220	.150	.104	.200	—	—	1
4521-18-50-*	.180	.500	.010	.270	.220	.150	.071	.100	.300	—	2
4521-18-60-*	.180	.600	.010	.270	.220	.150	.071	.150	.300	—	2
4521-18-62-*	.180	.625	.010	.270	.220	.150	.071	.125	.375	—	2
4522-18-62-*	.180	.625	.010	.270	.220	.150	.093	.125	.375	—	2
4523-18-62-*	.180	.625	.010	.270	.220	.150	.093	.312	—	—	1
4524-18-62-*	.180	.625	.010	.270	.220	.150	.093	.156	.312	—	2
4521-18-75-*	.180	.750	.010	.270	.220	.150	.071	.187	.375	—	2
4521-18-80-*	.180	.800	.010	.270	.220	.150	.071	.200	.400	—	2
4521-18-100-*	.180	1.000	.010	.270	.220	.150	.071	.200	.600	—	2
4521-18-120-*	.180	1.200	.010	.270	.220	.150	.071	.300	.600	—	2
4521-18-140-*	.180	1.400	.010	.270	.220	.150	.071	.300	.800	—	2
4521-18-160-*	.180	1.600	.010	.270	.220	.150	.071	.400	.800	—	2
4521-18-180-*	.180	1.800	.010	.270	.220	.150	.071	.400	1.000	—	2
4521-18-200-*	.180	2.000	.010	.270	.220	.150	.071	.300	.700	1.400	3
4523-20-20-*	.200	.200	.010	.290	.240	.160	.071	.100	—	—	1
4521-20-20-*	.200	.200	.012	.290	.240	.160	.071	.100	—	—	1
4522-20-20-*	.200	.200	.012	.290	.240	.160	.093	.100	—	—	1
4521-20-25-*	.200	.250	.012	.290	.240	.160	.071	.125	—	—	1
4522-20-25-*	.200	.250	.012	.290	.240	.160	.093	.125	—	—	1
4521-20-30-*	.200	.300	.012	.290	.240	.160	.071	.150	—	—	1
4522-20-30-*	.200	.300	.012	.290	.240	.160	.071	.156	—	—	1
4523-20-30-*	.200	.300	.012	.290	.240	.160	.071	.078	.156	—	2
4521-20-31-*	.200	.312	.012	.290	.240	.160	.093	.156	—	—	1
4521-20-37-*	.200	.375	.012	.290	.240	.160	.071	.109	.156	—	2
4521-20-40-*	.200	.400	.012	.290	.240	.160	.071	.200	—	—	1
4521-20-50-*	.200	.500	.012	.290	.240	.160	.071	.100	.300	—	2
4521-20-60-*	.200	.600	.012	.290	.240	.160	.071	.150	.300	—	2

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

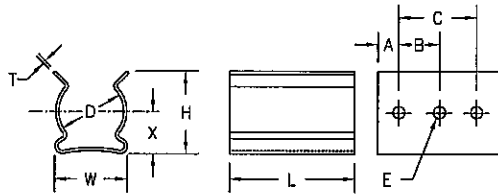
**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

# SPRING CLIPS *(Continued)*

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	C ±.005	NO. OF HOLES
4521-20-62-*	.200	.625	.012	.290	.240	.160	.071	.125	.375	—	2
4522-20-62-*	.200	.625	.012	.290	.240	.160	.093	.156	.312	—	2
4521-20-80-*	.200	.800	.012	.290	.240	.160	.071	.200	.400	—	2
4521-20-100-*	.200	1.000	.012	.290	.240	.160	.071	.200	.600	—	2
4521-20-112-*	.200	1.125	.010	.290	.240	.160	.071	.125	.438	.875	3
4522-20-112-*	.200	1.125	.010	.290	.240	.160	.093	.125	.438	.875	3
4521-20-120-*	.200	1.200	.012	.290	.240	.160	.071	.300	.600	—	2
4521-20-140-*	.200	1.400	.012	.290	.240	.160	.071	.300	.800	—	2
4521-20-160-*	.200	1.600	.012	.290	.240	.160	.071	.400	.800	—	2
4521-20-180-*	.200	1.800	.012	.290	.240	.160	.071	.400	1.000	—	2
4521-20-200-*	.200	2.000	.012	.290	.240	.160	.071	.300	.700	1.400	3
4521-22-20-*	.220	.200	.012	.320	.260	.168	.103	.100	—	—	1
4521-22-30-*	.220	.300	.012	.320	.260	.168	.103	.150	—	—	1
4521-22-40-*	.220	.400	.012	.320	.260	.168	.103	.200	—	—	1
4521-22-50-*	.220	.500	.012	.320	.260	.168	.103	.100	.300	—	2
4521-22-60-*	.220	.600	.012	.320	.260	.168	.103	.150	.300	—	2
4521-22-80-*	.220	.800	.012	.320	.260	.168	.103	.200	.400	—	2
4521-22-100-*	.220	1.000	.012	.320	.260	.168	.103	.200	.600	—	2
4521-22-120-*	.220	1.200	.012	.320	.260	.168	.103	.300	.600	—	2
4521-22-140-*	.220	1.400	.012	.320	.260	.168	.103	.300	.800	—	2
4521-22-160-*	.220	1.600	.012	.320	.260	.168	.103	.400	.800	—	2
4522-22-160-*	.220	1.600	.012	.320	.260	.168	.130	.175	1.250	—	2
4521-22-180-*	.220	1.800	.012	.320	.260	.168	.103	.400	1.000	—	2
4521-22-200-*	.220	2.000	.012	.320	.260	.168	.103	.300	.700	1.400	3
4522-24-20-*	.240	.200	.012	.340	.280	.190	.093	.100	—	—	1
4521-24-20-*	.240	.200	.012	.340	.280	.190	.103	.100	—	—	1
4521-24-25-*	.240	.250	.012	.340	.280	.190	.103	.125	—	—	1
4521-24-30-*	.240	.300	.012	.340	.280	.190	.103	.150	—	—	1
4521-24-31-*	.240	.312	.012	.340	.280	.190	.071	.156	—	—	1
4522-24-31-*	.240	.312	.012	.340	.280	.190	.093	.156	—	—	1
4523-24-31-*	.240	.312	.012	.340	.280	.190	.125	.156	—	—	1
4521-24-37-*	.240	.375	.012	.340	.280	.190	.071	.187	—	—	1
4521-24-40-*	.240	.400	.012	.340	.280	.190	.103	.200	—	—	1
4521-24-50-*	.240	.500	.012	.340	.280	.190	.103	.100	.300	—	2
4521-24-60-*	.240	.600	.012	.340	.280	.190	.103	.150	.300	—	2

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

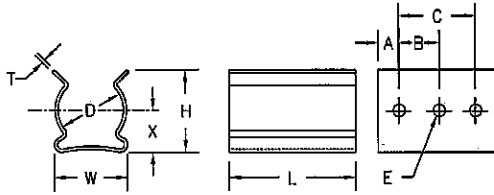
- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

- Solder Lugs
- Spring Clips
- Spring Washers
- Shoulder Washers
- Stand Off Spacers
- Flat Round Washers - Metallic
- Flat Round Washers - Non-Metallic
- O-Rings
- Retaining Rings
- Lockwashers, Retention Washers & Push-on Nuts
- Clamps & Brackets
- Expansion Plugs
- Ground Straps, Bus Bars & Term. Blocks
- Tab & Notch Washers
- Misc. Washers & Tags
- Solid State Insulators
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- Custom Parts
- Engineering Tables
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# SPRING CLIPS (Continued)

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ± .015	L LENGTH ± .010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ± .020	E HOLE DIA. ± .003	A ± .005	B ± .005	C ± .005	NO. OF HOLES
4522-24-62-*	.240	.625	.012	.340	.280	.190	.071	.156	.312	—	2
4521-24-62-*	.240	.625	.012	.340	.280	.190	.093	.156	.312	—	2
4523-24-62-*	.240	.625	.012	.340	.280	.190	.103	.156	.312	—	2
4521-24-75-*	.240	.750	.012	.340	.280	.190	.093	.156	.437	—	2
4521-24-80-*	.240	.800	.012	.340	.280	.190	.103	.200	.400	—	2
4521-24-100-*	.240	1.000	.012	.340	.280	.190	.103	.200	.600	—	2
4521-24-120-*	.240	1.200	.012	.340	.280	.190	.103	.300	.600	—	2
4521-24-140-*	.240	1.400	.012	.340	.280	.190	.103	.300	.800	—	2
4521-24-160-*	.240	1.600	.012	.340	.280	.190	.103	.400	.800	—	2
4521-24-180-*	.240	1.800	.012	.340	.280	.190	.103	.400	1.000	—	2
4521-24-200-*	.240	2.000	.012	.340	.280	.190	.103	.300	.700	1.400	3
4521-26-20-*	.260	.200	.012	.360	.300	.203	.103	.100	—	—	1
4521-26-25-*	.260	.250	.012	.360	.300	.203	.093	.125	—	—	1
4521-26-30-*	.260	.300	.012	.360	.300	.203	.103	.150	—	—	1
4521-26-37-*	.260	.375	.012	.360	.300	.203	.103	.187	—	—	1
4521-26-40-*	.260	.400	.012	.360	.300	.203	.103	.200	—	—	1
4522-26-50-*	.260	.500	.012	.360	.300	.203	.093	.250	—	—	1
4524-26-50-*	.260	.500	.012	.360	.300	.203	.136	.250	—	—	1
4521-26-50-*	.260	.500	.012	.360	.300	.203	.103	.100	.300	—	2
4523-26-50-*	.260	.500	.012	.360	.300	.203	.093	.125	.250	—	2
4525-26-50-*	.260	.500	.012	.360	.300	.203	.103	.125	.250	—	2
4522-26-60-*	.260	.600	.012	.360	.300	.203	.093	.150	.300	—	2
4521-26-60-*	.260	.600	.012	.360	.300	.203	.103	.150	.300	—	2
4521-26-62-*	.260	.625	.012	.360	.300	.203	.103	.156	.312	—	2
4522-26-75-*	.260	.750	.012	.360	.300	.203	.093	.187	.375	—	2
4521-26-75-*	.260	.750	.012	.360	.300	.203	.103	.187	.375	—	2
4521-26-80-*	.260	.800	.012	.360	.300	.203	.103	.200	.400	—	2
4521-26-100-*	.260	1.000	.012	.360	.300	.203	.103	.200	.600	—	2
4521-26-120-*	.260	1.200	.012	.360	.300	.203	.103	.300	.600	—	2
4521-26-140-*	.260	1.400	.012	.360	.300	.203	.103	.300	.800	—	2
4521-26-160-*	.260	1.600	.012	.360	.300	.203	.103	.400	.800	—	2
4521-26-180-*	.260	1.800	.012	.360	.300	.203	.103	.400	1.000	—	2
4521-26-200-*	.260	2.000	.012	.360	.300	.203	.103	.300	.700	1.400	3
4521-28-20-*	.280	.200	.012	.380	.330	.220	.103	.100	—	—	1
4522-28-20-*	.280	.200	.012	.380	.330	.220	.117	.100	—	—	1

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

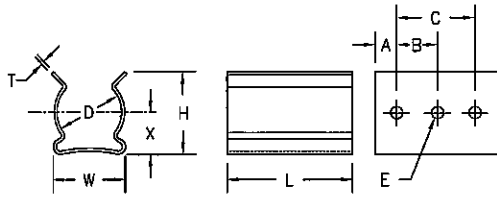
**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

# SPRING CLIPS (Continued)

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ± .015	L LENGTH ± .010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ± .020	E HOLE DIA. ± .003	A ± .005	B ± .005	C ± .005	NO. OF HOLES
4521-28-25-*	.280	.250	.012	.380	.330	.220	.103	.125	—	—	1
4522-28-25-*	.280	.250	.012	.380	.330	.220	.131	.125	—	—	1
4521-28-30-*	.280	.300	.012	.380	.330	.220	.103	.150	—	—	1
4521-28-37-*	.280	.375	.012	.380	.330	.220	.103	.187	—	—	1
4521-28-40-*	.280	.400	.012	.380	.330	.220	.103	.200	—	—	1
4521-28-50-*	.280	.500	.012	.380	.330	.220	.103	.100	.300	—	2
4521-28-60-*	.280	.600	.012	.380	.330	.220	.103	.150	.300	—	2
4522-28-62-*	.280	.625	.012	.380	.330	.220	.093	.125	.375	—	2
4523-28-62-*	.280	.625	.012	.380	.330	.220	.093	.156	.312	—	2
4521-28-62-*	.280	.625	.012	.380	.330	.220	.103	.156	.312	—	2
4521-28-80-*	.280	.800	.012	.380	.330	.220	.103	.200	.400	—	2
4521-28-100-*	.280	1.000	.012	.380	.330	.220	.103	.200	.600	—	2
4522-28-100-*	.280	1.000	.012	.380	.330	.220	.093	.250	.500	—	2
4521-28-120-*	.280	1.200	.012	.380	.330	.220	.103	.300	.600	—	2
4521-28-140-*	.280	1.400	.012	.380	.330	.220	.103	.300	.800	—	2
4521-28-160-*	.280	1.600	.012	.380	.330	.220	.103	.400	.800	—	2
4521-28-180-*	.280	1.800	.012	.380	.330	.220	.103	.400	1.000	—	2
4521-28-200-*	.280	2.000	.012	.380	.330	.220	.103	.300	.700	1.400	3
4521-28-220-*	.280	2.200	.012	.380	.330	.220	.103	.300	.800	1.600	3
4521-28-240-*	.280	2.400	.012	.380	.330	.220	.103	.400	.800	1.600	3
4521-28-260-*	.280	2.600	.012	.380	.330	.220	.103	.400	.900	1.800	3
4521-28-300-*	.280	3.000	.012	.380	.330	.220	.103	.300	.800	—	4
4522-30-20-*	.300	.200	.016	.400	.360	.231	.070	.100	—	—	1
4523-30-20-*	.300	.200	.016	.400	.360	.231	.093	.100	—	—	1
4521-30-20-*	.300	.200	.016	.400	.360	.231	.103	.100	—	—	1
4521-30-30-*	.300	.300	.016	.400	.360	.231	.103	.150	—	—	1
4521-30-40-*	.300	.400	.016	.400	.360	.231	.103	.200	—	—	1
4521-30-50-*	.300	.500	.016	.400	.360	.231	.103	.100	.300	—	2
4521-30-60-*	.300	.600	.016	.400	.360	.231	.103	.150	.300	—	2
4521-30-80-*	.300	.800	.016	.400	.360	.231	.103	.200	.400	—	2
4521-30-100-*	.300	1.000	.016	.400	.360	.231	.103	.200	.600	—	2
4521-30-112-*	.300	1.125	.016	.400	.360	.231	.103	.187	.375	.750	3
4521-30-120-*	.300	1.200	.016	.400	.360	.231	.103	.300	.600	—	2
4521-30-140-*	.300	1.400	.016	.400	.360	.231	.103	.300	.800	—	2
4521-30-160-*	.300	1.600	.016	.400	.360	.231	.103	.400	.800	—	2

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

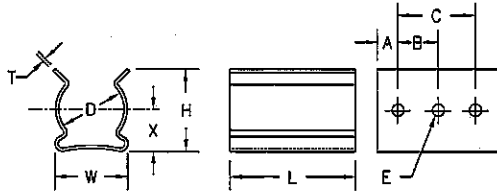
- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

- Solder Lugs
- Spring Clips
- Spring Washers
- Shoulder Washers
- Stand Off Spacers
- Flat Round Washers - Metallic
- Flat Round Washers - Non-Metallic
- O-Rings
- Retaining Rings
- Lockwashers, Retention Washers & Push-on Nuts
- Clamps & Brackets
- Expansion Plugs
- Ground Straps, Bus Bars & Term. Blocks
- Tab & Notch Washers
- Misc. Washers & Tags
- Solid State Insulators
- Military Standards
- Custom Parts
- Engineering Tables
- Num. & Alpha. Index of Parts

# SPRING CLIPS (Continued)

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ± .015	L LENGTH ± .010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ± .020	E HOLE DIA. ± .003	A ± .005	B ± .005	C ± .005	NO. OF HOLES
4521-30-180-*	.300	1.800	.016	.400	.360	.231	.103	.400	1.000	—	2
4521-30-200-*	.300	2.000	.016	.400	.360	.231	.103	.300	.700	1.400	3
4521-30-220-*	.300	2.200	.016	.400	.360	.231	.103	.300	.800	1.600	3
4521-31-20-*	.312	.200	.012	.400	.360	.220	.093	.100	—	—	1
4521-31-25-*	.312	.250	.012	.400	.360	.220	.093	.125	—	—	1
4521-31-31-*	.312	.312	.012	.400	.360	.220	.093	.156	—	—	1
4522-31-37-*	.312	.375	.012	.400	.360	.220	.067	.187	—	—	1
4521-31-37-*	.312	.375	.012	.400	.360	.220	.093	.187	—	—	1
4523-31-37-*	.312	.375	.012	.400	.360	.220	.128	.187	—	—	1
4521-31-50-*	.312	.500	.012	.400	.360	.220	.093	.100	.300	—	2
4522-31-50-*	.312	.500	.012	.400	.360	.220	.103	.156	.187	—	2
4521-31-56-*	.312	.562	.016	.400	.360	.230	.093	.156	.250	—	2
4521-31-68-*	.312	.687	.012	.400	.360	.220	.093	.125	.435	—	2
4521-31-75-*	.312	.750	.016	.400	.360	.230	.093	.156	.435	—	2
4522-31-75-*	.312	.750	.016	.400	.360	.230	.093	.187	.375	—	2
4523-31-75-*	.312	.750	.016	.400	.360	.230	.103	.156	.435	—	2
4521-32-20-*	.320	.200	.016	.430	.370	.230	.103	.100	—	—	1
4521-32-30-*	.320	.300	.016	.430	.370	.230	.103	.150	—	—	1
4521-32-40-*	.320	.400	.016	.430	.370	.230	.103	.200	—	—	1
4521-32-50-*	.320	.500	.016	.430	.370	.230	.103	.100	.300	—	2
4521-32-60-*	.320	.600	.016	.430	.370	.230	.103	.150	.300	—	2
4521-32-80-*	.320	.800	.016	.430	.370	.230	.103	.200	.400	—	2
4521-32-100-*	.320	1.000	.016	.430	.370	.230	.103	.200	.600	—	2
4521-32-120-*	.320	1.200	.016	.430	.370	.230	.103	.300	.600	—	2
4521-32-140-*	.320	1.400	.016	.430	.370	.230	.103	.300	.800	—	2
4521-32-160-*	.320	1.600	.016	.430	.370	.230	.103	.400	.800	—	2
4521-32-180-*	.320	1.800	.016	.430	.370	.230	.103	.400	1.000	—	2
4521-32-200-*	.320	2.000	.016	.430	.370	.230	.103	.300	.700	1.400	3
4521-32-220-*	.320	2.200	.016	.430	.370	.230	.103	.300	.800	1.600	3
4521-32-240-*	.320	2.400	.016	.430	.370	.230	.103	.400	.800	1.600	3
4521-32-260-*	.320	2.600	.016	.430	.370	.230	.103	.400	.900	1.800	3
4521-32-300-*	.320	3.000	.016	.430	.370	.230	.103	.300	.800	—	4
4521-34-20-*	.340	.200	.016	.430	.380	.220	.103	.100	—	—	1
4521-34-30-*	.340	.300	.016	.430	.380	.220	.103	.150	—	—	1
4521-34-40-*	.340	.400	.016	.430	.380	.220	.103	.200	—	—	1

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

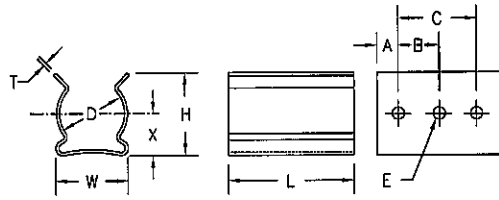
- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •



# SPRING CLIPS (Continued)

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ± .015	L LENGTH ± .010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ± .020	E HOLE DIA. ± .003	A ± .005	B ± .005	C ± .005	NO. OF HOLES
4521-34-50-*	.340	.500	.016	.430	.380	.220	.103	.100	.300	—	2
4521-34-60-*	.340	.600	.016	.430	.380	.220	.103	.150	.300	—	2
4521-34-80-*	.340	.800	.016	.430	.380	.220	.103	.200	.400	—	2
4521-34-100-*	.340	1.000	.016	.430	.380	.220	.103	.200	.600	—	2
4521-34-120-*	.340	1.200	.016	.430	.380	.220	.103	.300	.600	—	2
4521-34-140-*	.340	1.400	.016	.430	.380	.220	.103	.300	.800	—	2
4521-34-160-*	.340	1.600	.016	.430	.380	.220	.103	.400	.800	—	2
4521-34-180-*	.340	1.800	.016	.430	.380	.220	.103	.400	1.000	—	2
4521-34-200-*	.340	2.000	.016	.430	.380	.220	.103	.300	.700	1.400	3
4521-34-220-*	.340	2.200	.016	.430	.380	.220	.103	.300	.800	1.600	3
4521-34-240-*	.340	2.400	.016	.430	.380	.220	.103	.400	.800	1.600	3
4521-35-62-*	.350	.625	.012	.460	.350	.210	.093	.125	.375	—	2
4521-36-20-*	.360	.200	.016	.480	.430	.259	.103	.100	—	—	1
4521-36-30-*	.360	.300	.016	.480	.430	.259	.103	.150	—	—	1
4521-36-40-*	.360	.400	.016	.480	.430	.259	.103	.200	—	—	1
4522-36-40-*	.360	.400	.016	.480	.430	.259	.125	.200	—	—	1
4521-36-50-*	.360	.500	.016	.480	.430	.259	.103	.100	.300	—	2
4522-36-50-*	.360	.500	.016	.480	.430	.259	.103	.250	—	—	1
4521-36-60-*	.360	.600	.016	.480	.430	.259	.103	.150	.300	—	2
4521-36-80-*	.360	.800	.016	.480	.430	.259	.103	.200	.400	—	2
4521-36-100-*	.360	1.000	.016	.480	.430	.259	.103	.200	.600	—	2
4521-36-120-*	.360	1.200	.016	.480	.430	.259	.103	.300	.600	—	2
4521-36-140-*	.360	1.400	.016	.480	.430	.259	.103	.300	.800	—	2
4521-36-160-*	.360	1.600	.016	.480	.430	.259	.103	.400	.800	—	2
4521-36-180-*	.360	1.800	.016	.480	.430	.259	.103	.400	1.000	—	2
4521-36-200-*	.360	2.000	.016	.480	.430	.259	.103	.300	.700	1.400	3
4521-36-220-*	.360	2.200	.016	.480	.430	.259	.103	.300	.800	1.600	3
4521-36-240-*	.360	2.400	.016	.480	.430	.259	.103	.400	.800	1.600	3
4521-38-20-*	.380	.200	.016	.500	.450	.276	.103	.100	—	—	1
4522-38-25-*	.380	.250	.016	.500	.450	.276	.093	.125	—	—	1
4521-38-25-*	.380	.250	.016	.500	.450	.276	.103	.125	—	—	1
4521-38-30-*	.380	.300	.016	.500	.450	.276	.103	.150	—	—	1
4521-38-31-*	.380	.312	.016	.500	.450	.276	.103	.156	—	—	1
4521-38-37-*	.380	.375	.012	.470	.420	.260	.093	.187	—	—	1
4522-38-37-*	.380	.375	.012	.470	.420	.260	.136	.187	—	—	1

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

Solder Lugs

Spring Clips

Spring Washers

Shoulder Washers

Stand Off Spacers

Flat Round Washers - Metallic

Flat Round Washers - Non-Metallic

O-Rings

Retaining Rings

Lockwashers, Retention Washers & Push-on Nuts

Clamps & Brackets

Expansion Plugs

Ground Straps, Bus Bars & Term. Blocks

Tab & Notch Washers

Misc. Washers & Tags

Solid State Insulators

Military Standards

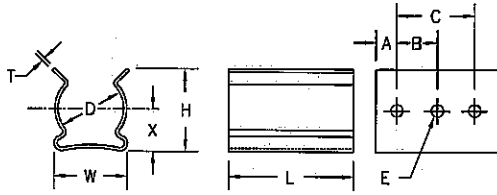
Custom Parts

Engineering Tables

Num. & Alpha. Index of Parts

# SPRING CLIPS (Continued)

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ± .015	L LENGTH ± .010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ± .020	E HOLE DIA. ± .003	A ± .005	B ± .005	C ± .005	NO. OF HOLES
4521-38-40*	.380	.400	.016	.500	.450	.276	.103	.200	—	—	1
4521-38-50*	.380	.500	.016	.500	.450	.276	.103	.100	.300	—	2
4521-38-60*	.380	.600	.016	.500	.450	.276	.103	.150	.300	—	2
4522-38-62*	.380	.625	.016	.500	.450	.276	.093	.125	.375	—	2
4521-38-62*	.380	.625	.016	.500	.450	.276	.103	.125	.375	—	2
4522-38-75*	.380	.750	.018	.480	.430	.270	.093	.156	.438	—	2
4521-38-75*	.380	.750	.018	.480	.430	.270	.103	.187	.375	—	2
4523-38-75*	.380	.750	.018	.480	.430	.270	.128	.187	.375	—	2
4521-38-80*	.380	.800	.016	.500	.450	.276	.103	.200	.400	—	2
4521-38-87*	.380	.875	.016	.500	.450	.276	.103	.187	.500	—	2
4521-38-100*	.380	1.000	.016	.500	.450	.276	.103	.200	.600	—	2
4522-38-112*	.380	1.125	.018	.480	.430	.270	.093	.187	.375	.750	3
4521-38-112*	.380	1.125	.018	.480	.430	.270	.103	.187	.375	.750	3
4521-38-120*	.380	1.200	.016	.500	.450	.276	.103	.300	.600	—	2
4521-38-140*	.380	1.400	.016	.500	.450	.276	.103	.300	.800	—	2
4521-38-160*	.380	1.600	.016	.500	.450	.276	.103	.400	.800	—	2
4521-38-180*	.380	1.800	.016	.500	.450	.276	.103	.400	1.000	—	2
4521-38-200*	.380	2.000	.016	.500	.450	.276	.103	.300	.700	1.400	3
4521-38-220*	.380	2.200	.016	.500	.450	.276	.103	.300	.800	1.600	3
4521-38-240*	.380	2.400	.016	.500	.450	.276	.103	.400	.800	1.600	3
4521-39-62*	.391	.625	.018	.500	.450	.280	.093	.156	.312	—	2
4521-40-20*	.400	.200	.016	.510	.470	.288	.103	.100	—	—	1
4521-40-30*	.400	.300	.016	.510	.470	.288	.103	.150	—	—	1
4522-40-37*	.400	.375	.016	.510	.470	.288	.093	.187	—	—	1
4521-40-37*	.400	.375	.016	.510	.470	.288	.103	.187	—	—	1
4523-40-37*	.400	.375	.016	.510	.470	.288	.128	.187	—	—	1
4521-40-40*	.400	.400	.016	.510	.470	.288	.103	.200	—	—	1
4522-40-50*	.400	.500	.020	.520	.470	.288	.103	.250	—	—	1
4521-40-50*	.400	.500	.016	.510	.470	.288	.103	.100	.300	—	2
4521-40-60*	.400	.600	.016	.510	.470	.288	.103	.150	.300	—	2
4521-40-62*	.400	.625	.016	.510	.470	.288	.103	.156	.312	—	2
4522-40-75*	.400	.750	.018	.520	.470	.288	.093	.187	.375	—	2
4521-40-75*	.400	.750	.018	.520	.470	.288	.103	.187	.375	—	2
4521-40-80*	.400	.800	.016	.510	.470	.288	.103	.200	.400	—	2
4522-40-87*	.400	.875	.016	.510	.470	.288	.093	.187	.500	—	2

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

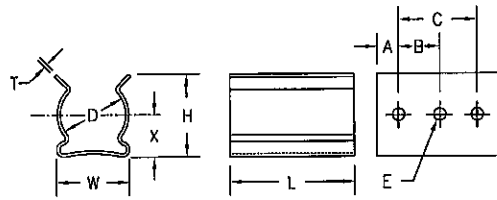
**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

# SPRING CLIPS *(Continued)*

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ± .015	L LENGTH ± .010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ± .020	E HOLE DIA. ± .003	A ± .005	B ± .005	C ± .005	NO. OF HOLES
4521-40-87-*	.400	.875	.016	.510	.470	.288	.103	.187	.500	—	2
4521-40-100-*	.400	1.000	.016	.510	.470	.288	.103	.200	.600	—	2
4522-40-112-*	.400	1.125	.020	.520	.470	.288	.093	.187	.375	.750	3
4521-40-112-*	.400	1.125	.020	.520	.470	.288	.103	.187	.375	.750	3
4523-40-112-*	.400	1.125	.020	.520	.470	.288	.128	.187	.375	.750	3
4521-40-120-*	.400	1.200	.016	.510	.470	.288	.103	.300	.600	—	2
4521-40-140-*	.400	1.400	.016	.510	.470	.288	.103	.300	.800	—	2
4521-40-160-*	.400	1.600	.016	.510	.470	.288	.103	.400	.800	—	2
4521-40-180-*	.400	1.800	.016	.510	.470	.288	.103	.400	1.000	—	2
4521-40-200-*	.400	2.000	.016	.510	.470	.288	.103	.300	.700	1.400	3
4521-40-220-*	.400	2.200	.016	.510	.470	.288	.103	.300	.800	1.600	3
4521-40-240-*	.400	2.400	.016	.510	.470	.288	.103	.400	.800	1.600	3
4521-40-260-*	.400	2.600	.016	.510	.470	.288	.103	.400	.900	1.800	3
4521-40-300-*	.400	3.000	.016	.510	.470	.288	.103	.300	.800	—	4
4521-42-30-*	.420	.300	.020	.540	.490	.302	.140	.150	—	—	1
4521-42-40-*	.420	.400	.020	.540	.490	.302	.140	.200	—	—	1
4522-42-50-*	.420	.500	.020	.540	.490	.302	.103	.100	.300	—	2
4521-42-60-*	.420	.600	.020	.540	.490	.302	.140	.150	.300	—	2
4521-42-80-*	.420	.800	.020	.540	.490	.302	.140	.200	.400	—	2
4521-42-100-*	.420	1.000	.020	.540	.490	.302	.140	.200	.600	—	2
4521-42-120-*	.420	1.200	.020	.540	.490	.302	.140	.300	.600	—	2
4521-42-140-*	.420	1.400	.020	.540	.490	.302	.140	.300	.800	—	2
4521-42-160-*	.420	1.600	.020	.540	.490	.302	.140	.400	.800	—	2
4521-42-180-*	.420	1.800	.020	.540	.490	.302	.140	.400	1.000	—	2
4521-42-200-*	.420	2.000	.020	.540	.490	.302	.140	.300	.700	1.400	3
4521-42-220-*	.420	2.200	.020	.540	.490	.302	.140	.300	.800	1.600	3
4521-42-240-*	.420	2.400	.020	.540	.490	.302	.140	.400	.800	1.600	3
4521-42-260-*	.420	2.600	.020	.540	.490	.302	.140	.400	.900	1.800	3
4521-42-300-*	.420	3.000	.020	.540	.490	.302	.140	.300	.800	—	4
4521-44-30-*	.440	.300	.020	.570	.510	.313	.140	.150	—	—	1
4521-44-37-*	.440	.375	.020	.570	.510	.313	.140	.187	—	—	1
4521-44-40-*	.440	.400	.020	.570	.510	.313	.140	.200	—	—	1
4522-44-50-*	.440	.500	.020	.570	.510	.313	.103	.100	.300	—	2
4521-44-60-*	.440	.600	.020	.570	.510	.313	.140	.150	.300	—	2
4521-44-75-*	.440	.750	.020	.570	.510	.313	.140	.187	.375	—	2

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

Solder  
Lugs

Spring  
Clips

Spring  
Washers

Shoulder  
Washers

Stand Off  
Spacers

Flat Round  
Washers -  
Metallic

Flat Round  
Washers -  
Non-Metallic

O-Rings

Retaining  
Rings

Lockwashers,  
Retention  
Washers &  
Push-on Nuts

Clamps &  
Brackets

Expansion  
Plugs

Ground  
Straps, Bus  
Bars &  
Term. Blocks

Tab & Notch  
Washers

Misc.  
Washers  
& Tags

Solid State  
Insulators

Military  
Standards

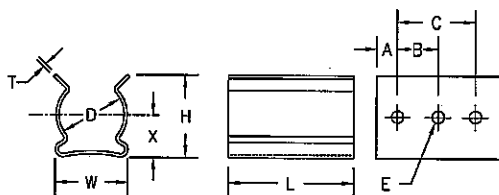
Custom  
Parts

Engineering  
Tables

Num. &  
Alpha. Index  
of Parts

# SPRING CLIPS (Continued)

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	C ±.005	NO. OF HOLES
4521-44-80-*	.440	.800	.020	.570	.510	.313	.140	.200	.400	—	2
4521-44-100-*	.440	1.000	.020	.570	.510	.313	.140	.200	.600	—	2
4521-44-112-*	.440	1.125	.020	.570	.510	.313	.140	.187	.375	.750	3
4521-44-120-*	.440	1.200	.020	.570	.510	.313	.140	.300	.600	—	2
4521-44-140-*	.440	1.400	.020	.570	.510	.313	.140	.300	.800	—	2
4521-44-160-*	.440	1.600	.020	.570	.510	.313	.140	.400	.800	—	2
4521-44-180-*	.440	1.800	.020	.570	.510	.313	.140	.400	1.000	—	2
4521-44-200-*	.440	2.000	.020	.570	.510	.313	.140	.300	.700	1.400	3
4521-44-220-*	.440	2.200	.020	.570	.510	.313	.140	.300	.800	1.600	3
4521-44-240-*	.440	2.400	.020	.570	.510	.313	.140	.400	.800	1.600	3
4521-44-260-*	.440	2.600	.020	.570	.510	.313	.140	.400	.900	1.800	3
4521-44-300-*	.440	3.000	.020	.570	.510	.313	.140	.300	.800	—	4
4521-46-30-*	.460	.300	.020	.600	.530	.324	.140	.150	—	—	1
4521-46-37-*	.460	.375	.020	.600	.530	.324	.093	.187	—	—	1
4521-46-40-*	.460	.400	.020	.600	.530	.324	.140	.200	—	—	1
4522-46-50-*	.460	.500	.020	.600	.530	.324	.103	.100	.300	—	2
4521-46-60-*	.460	.600	.020	.600	.530	.324	.140	.150	.300	—	2
4521-46-80-*	.460	.800	.020	.600	.530	.324	.140	.200	.400	—	2
4521-46-100-*	.460	1.000	.020	.600	.530	.324	.140	.200	.600	—	2
4521-46-120-*	.460	1.200	.020	.600	.530	.324	.140	.300	.600	—	2
4521-46-140-*	.460	1.400	.020	.600	.530	.324	.140	.300	.800	—	2
4521-46-160-*	.460	1.600	.020	.600	.530	.324	.140	.400	.800	—	2
4521-46-180-*	.460	1.800	.020	.600	.530	.324	.140	.400	1.000	—	2
4521-46-200-*	.460	2.000	.020	.600	.530	.324	.140	.300	.700	1.400	3
4521-46-220-*	.460	2.200	.020	.600	.530	.324	.140	.300	.800	1.600	3
4521-46-240-*	.460	2.400	.020	.600	.530	.324	.140	.400	.800	1.600	3
4521-46-260-*	.460	2.600	.020	.600	.530	.324	.140	.400	.900	1.800	3
4521-46-300-*	.460	3.000	.020	.600	.530	.324	.140	.300	.800	—	4
4521-48-30-*	.480	.300	.020	.630	.560	.347	.140	.150	—	—	1
4521-48-40-*	.480	.400	.020	.630	.560	.347	.140	.200	—	—	1
4522-48-50-*	.480	.500	.020	.630	.560	.347	.103	.100	.300	—	2
4521-48-60-*	.480	.600	.020	.630	.560	.347	.140	.150	.300	—	2
4521-48-80-*	.480	.800	.020	.630	.560	.347	.140	.200	.400	—	2
4521-48-100-*	.480	1.000	.020	.630	.560	.347	.140	.200	.600	—	2
4521-48-120-*	.480	1.200	.020	.630	.560	.347	.140	.300	.600	—	2

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

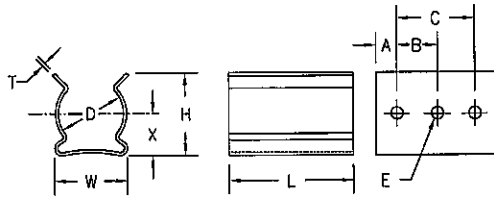
**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

# SPRING CLIPS (Continued)

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	C ±.005	NO. OF HOLES
4521-48-140-*	.480	1.400	.020	.630	.560	.347	.140	.300	.800	—	2
4521-48-160-*	.480	1.600	.020	.630	.560	.347	.140	.400	.800	—	2
4521-48-180-*	.480	1.800	.020	.630	.560	.347	.140	.400	1.000	—	2
4521-48-200-*	.480	2.000	.020	.630	.560	.347	.140	.300	.700	1.400	3
4521-48-220-*	.480	2.200	.020	.630	.560	.347	.140	.300	.800	1.600	3
4521-48-240-*	.480	2.400	.020	.630	.560	.347	.140	.400	.800	1.600	3
4521-48-260-*	.480	2.600	.020	.630	.560	.347	.140	.400	.900	1.800	3
4521-48-300-*	.480	3.000	.020	.630	.560	.347	.140	.300	.800	—	4
4521-50-30-*	.500	.300	.020	.640	.560	.372	.140	.150	—	—	1
4521-50-37-*	.500	.375	.016	.620	.560	.340	.093	.187	—	—	1
4522-50-37-*	.500	.375	.020	.620	.560	.340	.093	.187	—	—	1
4521-50-40-*	.500	.400	.020	.640	.560	.372	.140	.200	—	—	1
4522-50-50-*	.500	.500	.020	.640	.560	.372	.128	.250	—	—	1
4523-50-50-*	.500	.500	.020	.640	.560	.372	.103	.100	.300	—	2
4522-50-56-*	.500	.562	.020	.640	.560	.372	.067	.093	.375	—	2
4523-50-56-*	.500	.562	.020	.640	.560	.372	.067	.125	.312	—	2
4524-50-56-*	.500	.562	.020	.640	.560	.372	.128	.125	.312	—	2
4521-50-56-*	.500	.562	.020	.640	.560	.372	.140	.125	.312	—	2
4521-50-60-*	.500	.600	.020	.640	.560	.372	.140	.150	.300	—	2
4522-50-75-*	.500	.750	.016	.620	.560	.340	.067	.187	.375	—	2
4523-50-75-*	.500	.750	.016	.620	.560	.340	.103	.187	.375	—	2
4524-50-75-*	.500	.750	.016	.620	.560	.340	.128	.250	—	—	1
4521-50-75-*	.500	.750	.016	.620	.560	.340	.128	.187	.375	—	2
4521-50-80-*	.500	.800	.020	.640	.560	.372	.140	.200	.400	—	2
4521-50-87-*	.500	.875	.020	.640	.560	.372	.140	.156	.562	—	2
4521-50-100-*	.500	1.000	.020	.640	.560	.372	.140	.200	.600	—	2
4522-50-100-*	.500	1.000	.020	.640	.560	.372	.128	.187	.312	.625	3
4522-50-112-*	.500	1.125	.020	.640	.560	.372	.128	.312	.500	—	2
4521-50-112-*	.500	1.125	.020	.640	.560	.372	.140	.187	.750	—	2
4521-50-120-*	.500	1.200	.020	.640	.560	.372	.140	.300	.600	—	2
4521-50-140-*	.500	1.400	.020	.640	.560	.372	.140	.300	.800	—	2
4521-50-160-*	.500	1.600	.020	.640	.560	.372	.140	.400	.800	—	2
4522-50-162-*	.500	1.625	.016	.620	.560	.340	.067	.250	.562	1.125	3
4521-50-162-*	.500	1.625	.016	.620	.560	.340	.128	.250	.562	1.125	3
4523-50-162-*	.500	1.625	.016	.620	.560	.340	.128	.375	.875	—	2

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

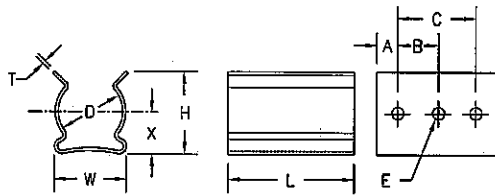
- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

- Solder Lugs
- Spring Clips
- Spring Washers
- Shoulder Washers
- Stand Off Spacers
- Flat Round Washers - Metallic
- Flat Round Washers - Non-Metallic
- O-Rings
- Retaining Rings
- Lockwashers, Retention Washers & Push-on Nuts
- Clamps & Brackets
- Expansion Plugs
- Ground Straps, Bus Bars & Term. Blocks
- Tab & Notch Washers
- Misc. Washers & Tags
- Solid State Insulators
- Military Standards
- Custom Parts
- Engineering Tables
- Num. & Alpha. Index of Parts

# SPRING CLIPS *(Continued)*

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	C ±.005	NO. OF HOLES
4521-50-180-*	.500	1.800	.020	.640	.560	.372	.140	.400	1.000	—	2
4521-50-200-*	.500	2.000	.020	.640	.560	.372	.140	.300	.700	1.400	3
4521-50-220-*	.500	2.200	.020	.640	.560	.372	.140	.300	.800	1.600	3
4521-50-240-*	.500	2.400	.020	.640	.560	.372	.140	.400	.800	1.600	3
4521-50-260-*	.500	2.600	.020	.640	.560	.372	.140	.400	.900	1.800	3
4521-50-300-*	.500	3.000	.020	.640	.560	.372	.140	.300	.800	—	4
4521-53-30-*	.530	.300	.020	.670	.590	.385	.140	.150	—	—	1
4521-53-40-*	.530	.400	.020	.670	.590	.385	.140	.200	—	—	1
4522-53-50-*	.530	.500	.020	.670	.590	.385	.103	.100	.300	—	2
4521-53-60-*	.530	.600	.020	.670	.590	.385	.140	.150	.300	—	2
4521-53-80-*	.530	.800	.020	.670	.590	.385	.140	.200	.400	—	2
4521-53-100-*	.530	1.000	.020	.670	.590	.385	.140	.200	.600	—	2
4521-53-120-*	.530	1.200	.020	.670	.590	.385	.140	.300	.600	—	2
4521-53-140-*	.530	1.400	.020	.670	.590	.385	.140	.300	.800	—	2
4521-53-160-*	.530	1.600	.020	.670	.590	.385	.140	.400	.800	—	2
4521-53-180-*	.530	1.800	.020	.670	.590	.385	.140	.400	1.000	—	2
4521-53-200-*	.530	2.000	.020	.670	.590	.385	.140	.300	.700	1.400	3
4521-53-220-*	.530	2.200	.020	.670	.590	.385	.140	.300	.800	1.600	3
4521-53-240-*	.530	2.400	.020	.670	.590	.385	.140	.400	.800	1.600	3
4521-53-260-*	.530	2.600	.020	.670	.590	.385	.140	.400	.900	1.800	3
4521-53-300-*	.530	3.000	.020	.670	.590	.385	.140	.300	.800	—	4
4521-56-25-*	.560	.250	.025	.720	.630	.416	.140	.125	—	—	1
4521-56-30-*	.560	.300	.025	.720	.630	.416	.140	.150	—	—	1
4521-56-37-*	.560	.375	.022	.720	.630	.416	.093	.187	—	—	1
4522-56-37-*	.560	.375	.022	.720	.630	.416	.128	.187	—	—	1
4523-56-37-*	.560	.375	.022	.720	.630	.416	.136	.187	—	—	1
4521-56-40-*	.560	.400	.025	.720	.630	.416	.140	.200	—	—	1
4522-56-50-*	.560	.500	.025	.720	.630	.416	.128	.250	—	—	1
4523-56-50-*	.560	.500	.025	.720	.630	.416	.103	.100	.300	—	2
4522-56-56-*	.560	.562	.025	.720	.630	.416	.128	.125	.312	—	2
4521-56-56-*	.560	.562	.025	.720	.630	.416	.140	.125	.312	—	2
4521-56-60-*	.560	.600	.025	.720	.630	.416	.140	.150	.300	—	2
4521-56-62-*	.560	.625	.025	.720	.630	.416	.140	.156	.312	—	2
4522-56-68-*	.560	.687	.022	.720	.630	.416	.093	.187	.312	—	2
4521-56-68-*	.560	.687	.022	.720	.630	.416	.128	.187	.312	—	2

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

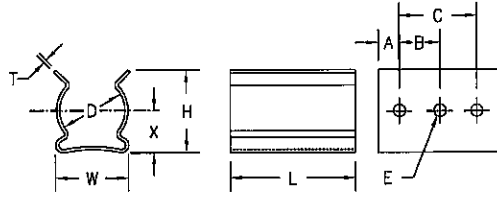
**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

# SPRING CLIPS *(Continued)*

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	C ±.005	NO. OF HOLES
4521-56-80-*	.560	.800	.025	.720	.630	.416	.140	.200	.400	—	2
4521-56-100-*	.560	1.000	.025	.720	.630	.416	.140	.200	.600	—	2
4522-56-100-*	.560	1.000	.022	.720	.630	.416	.093	.187	.625	—	2
4523-56-100-*	.560	1.000	.022	.720	.630	.416	.103	.187	.625	—	2
4524-56-100-*	.560	1.000	.022	.720	.630	.416	.128	.187	.625	—	2
4525-56-100-*	.560	1.000	.022	.720	.630	.416	.093	.250	.500	—	2
4526-56-100-*	.560	1.000	.022	.720	.630	.416	.103	.250	.500	—	2
4521-56-120-*	.560	1.200	.025	.720	.630	.416	.140	.300	.600	—	2
4521-56-140-*	.560	1.400	.025	.720	.630	.416	.140	.300	.800	—	2
4521-56-150-*	.560	1.500	.025	.720	.630	.416	.140	.250	.500	1.000	3
4521-56-160-*	.560	1.600	.025	.720	.630	.416	.140	.400	.800	—	2
4521-56-162-*	.560	1.625	.022	.720	.630	.416	.128	.250	.562	1.125	3
4521-56-180-*	.560	1.800	.025	.720	.630	.416	.140	.400	1.000	—	2
4521-56-200-*	.560	2.000	.025	.720	.630	.416	.140	.300	.700	1.400	3
4521-56-220-*	.560	2.200	.025	.720	.630	.416	.140	.300	.800	1.600	3
4521-56-240-*	.560	2.400	.025	.720	.630	.416	.140	.400	.800	1.600	3
4521-56-260-*	.560	2.600	.025	.720	.630	.416	.140	.400	.900	1.800	3
4521-56-300-*	.560	3.000	.025	.720	.630	.416	.140	.300	.800	—	4
4521-59-30-*	.590	.300	.025	.760	.660	.415	.140	.150	—	—	1
4521-59-40-*	.590	.400	.025	.760	.660	.415	.140	.200	—	—	1
4522-59-50-*	.590	.500	.025	.760	.660	.415	.103	.100	.300	—	2
4521-59-60-*	.590	.600	.025	.760	.660	.415	.140	.150	.300	—	2
4521-59-80-*	.590	.800	.025	.760	.660	.415	.140	.200	.400	—	2
4521-59-100-*	.590	1.000	.025	.760	.660	.415	.140	.200	.600	—	2
4521-59-120-*	.590	1.200	.025	.760	.660	.415	.140	.300	.600	—	2
4521-59-140-*	.590	1.400	.025	.760	.660	.415	.140	.300	.800	—	2
4521-59-160-*	.590	1.600	.025	.760	.660	.415	.140	.400	.800	—	2
4521-59-180-*	.590	1.800	.025	.760	.660	.415	.140	.400	1.000	—	2
4521-59-200-*	.590	2.000	.025	.760	.660	.415	.140	.300	.700	1.400	3
4521-59-220-*	.590	2.200	.025	.760	.660	.415	.140	.300	.800	1.600	3
4521-59-240-*	.590	2.400	.025	.760	.660	.415	.140	.400	.800	1.600	3
4521-59-260-*	.590	2.600	.025	.760	.660	.415	.140	.400	.900	1.800	3
4521-59-300-*	.590	3.000	.025	.760	.660	.415	.140	.300	.800	—	4
4521-62-30-*	.620	.300	.025	.790	.690	.439	.140	.150	—	—	1
4521-62-40-*	.620	.400	.025	.790	.690	.439	.140	.200	—	—	1

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

Solder Lugs

Spring Clips

Spring Washers

Shoulder Washers

Stand Off Spacers

Flat Round Washers - Metallic

Flat Round Washers - Non-Metallic

O-Rings

Retaining Rings

Lockwashers, Retention Washers & Push-on Nuts

Clamps & Brackets

Expansion Plugs

Ground Straps, Bus Bars & Term. Blocks

Tab & Notch Washers

Misc. Washers & Tags

Solid State Insulators

Military Standards

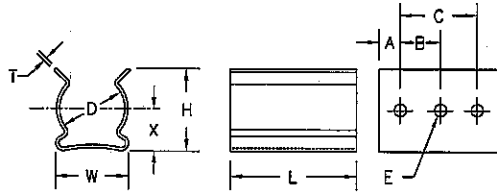
Custom Parts

Engineering Tables

Num. & Alpha. Index of Parts

# SPRING CLIPS *(Continued)*

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	C ±.005	NO. OF HOLES
4523-62-50-*	.620	.500	.025	.790	.690	.439	.103	.100	.300	—	2
4521-62-60-*	.620	.600	.025	.790	.690	.439	.140	.150	.300	—	2
4521-62-80-*	.620	.800	.025	.790	.690	.439	.140	.200	.400	—	2
4521-62-100-*	.620	1.000	.025	.790	.690	.439	.140	.200	.600	—	2
4522-62-100-*	.620	1.000	.025	.790	.690	.439	.128	.200	.600	—	2
4523-62-100-*	.620	1.000	.025	.790	.690	.439	.115	.250	.500	—	2
4524-62-100-*	.620	1.000	.025	.790	.690	.439	.140	.250	.500	—	2
4525-62-100-*	.620	1.000	.025	.790	.690	.439	.070	.188	.312	.625	3
4521-62-120-*	.620	1.200	.025	.790	.690	.439	.140	.300	.600	—	2
4521-62-140-*	.620	1.400	.025	.790	.690	.439	.140	.300	.800	—	2
4521-62-160-*	.620	1.600	.025	.790	.690	.439	.140	.400	.800	—	2
4521-62-180-*	.620	1.800	.025	.790	.690	.439	.140	.400	1.000	—	2
4521-62-200-*	.620	2.000	.025	.790	.690	.439	.140	.300	.700	1.400	3
4521-62-220-*	.620	2.200	.025	.790	.690	.439	.140	.300	.800	1.600	3
4521-62-240-*	.620	2.400	.025	.790	.690	.439	.140	.400	.800	1.600	3
4521-62-260-*	.620	2.600	.025	.790	.690	.439	.140	.400	.900	1.800	3
4521-62-300-*	.620	3.000	.025	.790	.690	.439	.140	.300	.800	—	4
4521-65-30-*	.650	.300	.025	.810	.720	.450	.140	.150	—	—	1
4521-65-40-*	.650	.400	.025	.810	.720	.450	.140	.200	—	—	1
4522-65-50-*	.650	.500	.025	.810	.720	.450	.128	.250	—	—	1
4523-65-50-*	.650	.500	.025	.810	.720	.450	.103	.100	.300	—	2
4521-65-60-*	.650	.600	.025	.810	.720	.450	.140	.150	.300	—	2
4521-65-80-*	.650	.800	.025	.810	.720	.450	.140	.200	.400	—	2
4521-65-100-*	.650	1.000	.025	.810	.720	.450	.140	.200	.600	—	2
4521-65-120-*	.650	1.200	.025	.810	.720	.450	.140	.300	.600	—	2
4521-65-140-*	.650	1.400	.025	.810	.720	.450	.140	.300	.800	—	2
4521-65-160-*	.650	1.600	.025	.810	.720	.450	.140	.400	.800	—	2
4521-65-180-*	.650	1.800	.025	.810	.720	.450	.140	.400	1.000	—	2
4521-65-200-*	.650	2.000	.025	.810	.720	.450	.140	.300	.700	1.400	3
4521-65-220-*	.650	2.200	.025	.810	.720	.450	.140	.300	.800	1.600	3
4521-65-240-*	.650	2.400	.025	.810	.720	.450	.140	.400	.800	1.600	3
4521-65-260-*	.650	2.600	.025	.810	.720	.450	.140	.400	.900	1.800	3
4521-65-300-*	.650	3.000	.025	.810	.720	.450	.140	.300	.800	—	4
4523-67-50-*	.670	.500	.016	.820	.720	.460	.103	.125	.250	—	2
4522-67-50-*	.670	.500	.016	.820	.720	.460	.128	.250	—	—	1

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

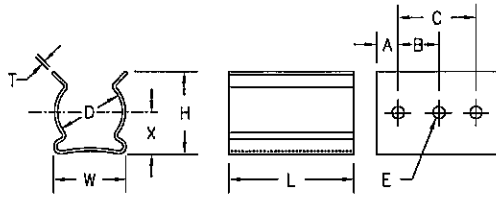
- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •



# SPRING CLIPS (Continued)

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ± .015	L LENGTH ± .010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ± .020	E HOLE DIA. ± .003	A ± .005	B ± .005	C ± .005	NO. OF HOLES
4521-67-62-*	.670	.625	.016	.820	.720	.460	.128	.312	—	—	1
4521-67-75-*	.670	.750	.016	.820	.720	.460	.128	.187	.375	—	2
4521-67-93-*	.670	.937	.016	.820	.720	.460	.128	.250	.437	—	2
4521-67-100-*	.670	1.000	.016	.820	.720	.460	.128	.187	.312	.625	3
4521-67-137-*	.670	1.375	.024	.840	.740	.470	.128	.250	.437	.875	3
4521-68-30-*	.680	.300	.025	.830	.740	.481	.140	.150	—	—	1
4521-68-40-*	.680	.400	.025	.830	.740	.481	.140	.200	—	—	1
4522-68-50-*	.680	.500	.025	.830	.740	.481	.128	.250	—	—	1
4524-68-50-*	.680	.500	.025	.830	.740	.481	.103	.100	.300	—	2
4521-68-60-*	.680	.600	.025	.830	.740	.481	.140	.150	.300	—	2
4521-68-80-*	.680	.800	.025	.830	.740	.481	.140	.200	.400	—	2
4521-68-100-*	.680	1.000	.025	.830	.740	.481	.140	.200	.600	—	2
4522-68-100-*	.680	1.000	.025	.830	.740	.481	.130	.187	.312	.625	3
4521-68-120-*	.680	1.200	.025	.830	.740	.481	.140	.300	.600	—	2
4521-68-140-*	.680	1.400	.025	.830	.740	.481	.140	.300	.800	—	2
4521-68-160-*	.680	1.600	.025	.830	.740	.481	.140	.400	.800	—	2
4521-68-180-*	.680	1.800	.025	.830	.740	.481	.140	.400	1.000	—	2
4521-68-200-*	.680	2.000	.025	.830	.740	.481	.140	.300	.700	1.400	3
4521-68-220-*	.680	2.200	.025	.830	.740	.481	.140	.300	.800	1.600	3
4521-68-240-*	.680	2.400	.025	.830	.740	.481	.140	.400	.800	1.600	3
4521-68-260-*	.680	2.600	.025	.830	.740	.481	.140	.400	.900	1.800	3
4521-68-300-*	.680	3.000	.025	.830	.740	.481	.140	.300	.800	—	4
4521-71-30-*	.710	.300	.025	.900	.780	.494	.140	.150	—	—	1
4521-71-40-*	.710	.400	.025	.900	.780	.494	.140	.200	—	—	1
4522-71-50-*	.710	.500	.025	.900	.780	.494	.103	.100	.300	—	2
4521-71-60-*	.710	.600	.025	.900	.780	.494	.140	.150	.300	—	2
4521-71-80-*	.710	.800	.025	.900	.780	.494	.140	.200	.400	—	2
4521-71-100-*	.710	1.000	.025	.900	.780	.494	.140	.200	.600	—	2
4521-71-120-*	.710	1.200	.025	.900	.780	.494	.140	.300	.600	—	2
4521-71-140-*	.710	1.400	.025	.900	.780	.494	.140	.300	.800	—	2
4521-71-160-*	.710	1.600	.025	.900	.780	.494	.140	.400	.800	—	2
4521-71-180-*	.710	1.800	.025	.900	.780	.494	.140	.400	1.000	—	2
4521-71-200-*	.710	2.000	.025	.900	.780	.494	.140	.300	.700	1.400	3
4521-71-220-*	.710	2.200	.025	.900	.780	.494	.140	.300	.800	1.600	3
4521-71-240-*	.710	2.400	.025	.900	.780	.494	.140	.400	.800	1.600	3

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

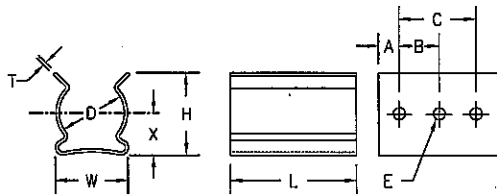
**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

# SPRING CLIPS (Continued)

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	C ±.005	NO. OF HOLES
4521-71-260-*	.710	2.600	.025	.900	.780	.494	.140	.400	.900	1.800	3
4521-71-300-*	.710	3.000	.025	.900	.780	.494	.140	.300	.800	—	4
4521-72-162-*	.720	1.625	.016	.820	.725	.485	.128	.250	.562	1.125	3
4521-74-30-*	.740	.300	.025	.950	.830	.506	.140	.150	—	—	1
4521-74-40-*	.740	.400	.025	.950	.830	.506	.140	.200	—	—	1
4522-74-50-*	.740	.500	.025	.950	.830	.506	.103	.100	.300	—	2
4521-74-60-*	.740	.600	.025	.950	.830	.506	.140	.150	.300	—	2
4521-74-80-*	.740	.800	.025	.950	.830	.506	.140	.200	.400	—	2
4521-74-100-*	.740	1.000	.025	.950	.830	.506	.140	.200	.600	—	2
4521-74-120-*	.740	1.200	.025	.950	.830	.506	.140	.300	.600	—	2
4521-74-140-*	.740	1.400	.025	.950	.830	.506	.140	.300	.800	—	2
4521-74-160-*	.740	1.600	.025	.950	.830	.506	.140	.400	.800	—	2
4521-74-180-*	.740	1.800	.025	.950	.830	.506	.140	.400	1.000	—	2
4521-74-200-*	.740	2.000	.025	.950	.830	.506	.140	.300	.700	1.400	3
4521-74-220-*	.740	2.200	.025	.950	.830	.506	.140	.300	.800	1.600	3
4521-74-240-*	.740	2.400	.025	.950	.830	.506	.140	.400	.800	1.600	3
4521-74-260-*	.740	2.600	.025	.950	.830	.506	.140	.400	.900	1.800	3
4521-74-300-*	.740	3.000	.025	.950	.830	.506	.140	.300	.800	—	4
4521-75-62-*	.750	.625	.020	.940	.830	.530	.144	.312	—	—	1
4522-75-62-*	.750	.625	.020	.940	.830	.530	.096	.156	.312	—	2
4521-75-75-*	.750	.750	.020	.920	.810	.600	.128	.187	.375	—	2
4521-75-87-*	.750	.875	.020	.940	.830	.530	.144	.250	.375	—	2
4521-75-100-*	.750	1.000	.029	.940	.830	.530	.156	.187	.625	—	2
4521-75-125-*	.750	1.250	.029	.940	.830	.530	.144	.250	.750	—	2
4521-75-162-*	.750	1.625	.029	.940	.830	.530	.144	.250	.562	1.125	3
4522-75-200-*	.750	2.000	.029	.940	.830	.530	.093	.250	.750	1.500	3
4523-75-200-*	.750	2.000	.029	.940	.830	.530	.128	.250	.750	1.500	3
4521-75-200-*	.750	2.000	.029	.940	.830	.530	.144	.250	.750	1.500	3
4521-77-30-*	.770	.300	.025	.990	.860	.534	.140	.150	—	—	1
4521-77-40-*	.770	.400	.025	.990	.860	.534	.140	.200	—	—	1
4522-77-50-*	.770	.500	.025	.990	.860	.534	.103	.100	.300	—	2
4521-77-60-*	.770	.600	.025	.990	.860	.534	.140	.150	.300	—	2
4521-77-80-*	.770	.800	.025	.990	.860	.534	.140	.200	.400	—	2
4521-77-100-*	.770	1.000	.025	.990	.860	.534	.140	.200	.600	—	2
4521-77-120-*	.770	1.200	.025	.990	.860	.534	.140	.300	.600	—	2

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

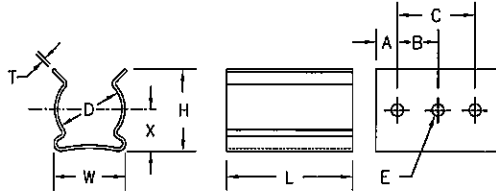
**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

# SPRING CLIPS (Continued)

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	C ±.005	NO. OF HOLES
4521-77-140-*	.770	1.400	.025	.990	.860	.534	.140	.300	.800	—	2
4521-77-160-*	.770	1.600	.025	.990	.860	.534	.140	.400	.800	—	2
4521-77-180-*	.770	1.800	.025	.990	.860	.534	.140	.400	1.000	—	2
4521-77-200-*	.770	2.000	.025	.990	.860	.534	.140	.300	.700	1.400	3
4521-77-220-*	.770	2.200	.025	.990	.860	.534	.140	.300	.800	1.600	3
4521-77-240-*	.770	2.400	.025	.990	.860	.534	.140	.400	.800	1.600	3
4521-77-260-*	.770	2.600	.025	.990	.860	.534	.140	.400	.900	1.800	3
4521-77-300-*	.770	3.000	.025	.990	.860	.534	.140	.300	.800	—	4
4521-80-30-*	.800	.300	.032	1.030	.900	.544	.140	.150	—	—	1
4521-80-40-*	.800	.400	.032	1.030	.900	.544	.140	.200	—	—	1
4522-80-50-*	.800	.500	.032	1.030	.900	.544	.103	.100	.300	—	2
4521-80-60-*	.800	.600	.032	1.030	.900	.544	.140	.150	.300	—	2
4521-80-80-*	.800	.800	.032	1.030	.900	.544	.140	.200	.400	—	2
4521-80-100-*	.800	1.000	.032	1.030	.900	.544	.140	.200	.600	—	2
4521-80-120-*	.800	1.200	.032	1.030	.900	.544	.140	.300	.600	—	2
4521-80-140-*	.800	1.400	.032	1.030	.900	.544	.140	.300	.800	—	2
4521-80-160-*	.800	1.600	.032	1.030	.900	.544	.140	.400	.800	—	2
4521-80-180-*	.800	1.800	.032	1.030	.900	.544	.140	.400	1.000	—	2
4521-80-200-*	.800	2.000	.032	1.030	.900	.544	.140	.300	.700	1.400	3
4521-80-220-*	.800	2.200	.032	1.030	.900	.544	.140	.300	.800	1.600	3
4521-80-240-*	.800	2.400	.032	1.030	.900	.544	.140	.400	.800	1.600	3
4521-80-260-*	.800	2.600	.032	1.030	.900	.544	.140	.400	.900	1.800	3
4521-80-300-*	.800	3.000	.032	1.030	.900	.544	.140	.300	.800	—	4
4521-83-30-*	.830	.300	.032	1.090	.920	.608	.140	.150	—	—	1
4521-83-40-*	.830	.400	.032	1.090	.920	.608	.140	.200	—	—	1
4522-83-50-*	.830	.500	.032	1.090	.920	.608	.103	.100	.300	—	2
4521-83-60-*	.830	.600	.032	1.090	.920	.608	.140	.150	.300	—	2
4521-83-80-*	.830	.800	.032	1.090	.920	.608	.140	.200	.400	—	2
4521-83-100-*	.830	1.000	.032	1.090	.920	.608	.140	.200	.600	—	2
4521-83-120-*	.830	1.200	.032	1.090	.920	.608	.140	.300	.600	—	2
4521-83-140-*	.830	1.400	.032	1.090	.920	.608	.140	.300	.800	—	2
4521-83-160-*	.830	1.600	.032	1.090	.920	.608	.140	.400	.800	—	2
4521-83-180-*	.830	1.800	.032	1.090	.920	.608	.140	.400	1.000	—	2
4521-83-200-*	.830	2.000	.032	1.090	.920	.608	.140	.300	.700	1.400	3
4521-83-220-*	.830	2.200	.032	1.090	.920	.608	.140	.300	.800	1.600	3

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

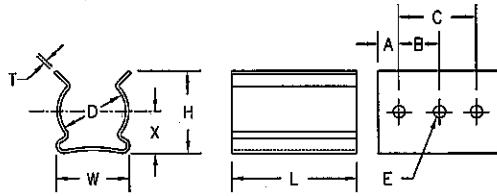
- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

- Solder Lugs
- Spring Clips
- Spring Washers
- Shoulder Washers
- Stand Off Spacers
- Flat Round Washers - Metallic
- Flat Round Washers - Non-Metallic
- O-Rings
- Retaining Rings
- Lockwashers, Retention Washers & Push-on Nuts
- Clamps & Brackets
- Expansion Plugs
- Ground Straps, Bus Bars & Term. Blocks
- Tab & Notch Washers
- Misc. Washers & Tags
- Solid State Insulators
- Military Standards
- Custom Parts
- Engineering Tables
- Num. & Alpha. Index of Parts

# SPRING CLIPS (Continued)

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ± .015	L LENGTH ± .010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ± .020	E HOLE DIA. ± .003	A ± .005	B ± .005	C ± .005	NO. OF HOLES
4521-83-240-*	.830	2.400	.032	1.090	.920	.608	.140	.400	.800	1.600	3
4521-83-260-*	.830	2.600	.032	1.090	.920	.608	.140	.400	.900	1.800	3
4521-83-300-*	.830	3.000	.032	1.090	.920	.608	.140	.300	.800	—	4
4521-83-340-*	.830	3.400	.032	1.090	.920	.608	.140	.350	.900	—	4
4521-83-380-*	.830	3.800	.032	1.090	.920	.608	.140	.400	1.000	—	4
4521-86-30-*	.860	.300	.032	1.120	.960	.576	.140	.150	—	—	1
4521-86-40-*	.860	.400	.032	1.120	.960	.576	.140	.200	—	—	1
4522-86-50-*	.860	.500	.032	1.120	.960	.576	.103	.100	.300	—	2
4521-86-60-*	.860	.600	.032	1.120	.960	.576	.140	.150	.300	—	2
4521-86-80-*	.860	.800	.032	1.120	.960	.576	.140	.200	.400	—	2
4521-86-100-*	.860	1.000	.032	1.120	.960	.576	.140	.200	.600	—	2
4521-86-120-*	.860	1.200	.032	1.120	.960	.576	.140	.300	.600	—	2
4521-86-140-*	.860	1.400	.032	1.120	.960	.576	.140	.300	.800	—	2
4521-86-160-*	.860	1.600	.032	1.120	.960	.576	.140	.400	.800	—	2
4521-86-180-*	.860	1.800	.032	1.120	.960	.576	.140	.400	1.000	—	2
4521-86-200-*	.860	2.000	.032	1.120	.960	.576	.140	.300	.700	1.400	3
4521-86-220-*	.860	2.200	.032	1.120	.960	.576	.140	.300	.800	1.600	3
4521-86-240-*	.860	2.400	.032	1.120	.960	.576	.140	.400	.800	1.600	3
4521-86-260-*	.860	2.600	.032	1.120	.960	.576	.140	.400	.900	1.800	3
4521-86-300-*	.860	3.000	.032	1.120	.960	.576	.140	.300	.800	—	4
4521-86-340-*	.860	3.400	.032	1.120	.960	.576	.140	.350	.900	—	4
4521-86-380-*	.860	3.800	.032	1.120	.960	.576	.140	.400	1.000	—	4
4522-87-62-*	.875	.625	.020	1.120	.950	.630	.140	.312	—	—	1
4521-87-62-*	.875	.625	.028	1.120	.950	.630	.128	.156	.312	—	2
4521-87-75-*	.875	.750	.028	1.120	.950	.630	.128	.187	.375	—	2
4521-87-100-*	.875	1.000	.028	1.120	.950	.630	.144	.500	—	—	1
4522-87-100-*	.875	1.000	.028	1.120	.950	.630	.144	.250	.500	—	2
4521-87-112-*	.875	1.125	.028	1.120	.950	.630	.144	.250	.625	—	2
4521-87-125-*	.875	1.250	.028	1.120	.950	.630	.144	.125	1.000	—	2
4522-87-125-*	.875	1.250	.028	1.120	.950	.630	.128	.250	.750	—	2
4521-87-150-*	.875	1.500	.028	1.120	.950	.630	.144	.250	1.000	—	2
4521-87-187-*	.875	1.875	.028	1.120	.950	.630	.144	.250	.688	1.375	3
4521-87-200-*	.875	2.000	.028	1.120	.950	.630	.144	.500	1.000	—	2
4522-87-200-*	.875	2.000	.028	1.120	.950	.630	.129	.250	.750	1.500	3
4523-87-200-*	.875	2.000	.028	1.120	.950	.630	.144	.250	.750	1.500	3

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

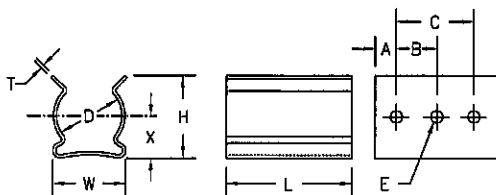
**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

# SPRING CLIPS (Continued)

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ± .015	L LENGTH ± .010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ± .020	E HOLE DIA. ± .003	A ± .005	B ± .005	C ± .005	NO. OF HOLES
4521-89-30-*	.890	.300	.032	1.140	.990	.589	.140	.150	—	—	1
4521-89-40-*	.890	.400	.032	1.140	.990	.589	.140	.200	—	—	1
4522-89-50-*	.890	.500	.032	1.140	.990	.589	.103	.100	.300	—	2
4521-89-60-*	.890	.600	.032	1.140	.990	.589	.140	.150	.300	—	2
4521-89-80-*	.890	.800	.032	1.140	.990	.589	.140	.200	.400	—	2
4521-89-100-*	.890	1.000	.032	1.140	.990	.589	.140	.200	.600	—	2
4521-89-120-*	.890	1.200	.032	1.140	.990	.589	.140	.300	.600	—	2
4521-89-140-*	.890	1.400	.032	1.140	.990	.589	.140	.300	.800	—	2
4521-89-160-*	.890	1.600	.032	1.140	.990	.589	.140	.400	.800	—	2
4521-89-180-*	.890	1.800	.032	1.140	.990	.589	.140	.400	1.000	—	2
4521-89-200-*	.890	2.000	.032	1.140	.990	.589	.140	.300	.700	1.400	3
4521-89-220-*	.890	2.200	.032	1.140	.990	.589	.140	.300	.800	1.600	3
4521-89-240-*	.890	2.400	.032	1.140	.990	.589	.140	.400	.800	1.600	3
4521-89-260-*	.890	2.600	.032	1.140	.990	.589	.140	.400	.900	1.800	3
4521-89-300-*	.890	3.000	.032	1.140	.990	.589	.140	.300	.800	—	4
4521-89-340-*	.890	3.400	.032	1.140	.990	.589	.140	.350	.900	—	4
4521-89-380-*	.890	3.800	.032	1.140	.990	.589	.140	.400	1.000	—	4
4521-92-30-*	.920	.300	.032	1.180	1.010	.610	.140	.150	—	—	1
4521-92-40-*	.920	.400	.032	1.180	1.010	.610	.140	.200	—	—	1
4522-92-50-*	.920	.500	.032	1.180	1.010	.610	.103	.100	.300	—	2
4521-92-60-*	.920	.600	.032	1.180	1.010	.610	.140	.150	.300	—	2
4521-92-80-*	.920	.800	.032	1.180	1.010	.610	.140	.200	.400	—	2
4521-92-100-*	.920	1.000	.032	1.180	1.010	.610	.140	.200	.600	—	2
4521-92-120-*	.920	1.200	.032	1.180	1.010	.610	.140	.300	.600	—	2
4521-92-140-*	.920	1.400	.032	1.180	1.010	.610	.140	.300	.800	—	2
4521-92-160-*	.920	1.600	.032	1.180	1.010	.610	.140	.400	.800	—	2
4521-92-180-*	.920	1.800	.032	1.180	1.010	.610	.140	.400	1.000	—	2
4521-92-200-*	.920	2.000	.032	1.180	1.010	.610	.140	.300	.700	1.400	3
4521-92-220-*	.920	2.200	.032	1.180	1.010	.610	.140	.300	.800	1.600	3
4521-92-240-*	.920	2.400	.032	1.180	1.010	.610	.140	.400	.800	1.600	3
4521-92-260-*	.920	2.600	.032	1.180	1.010	.610	.140	.400	.900	1.800	3
4521-92-300-*	.920	3.000	.032	1.180	1.010	.610	.140	.300	.800	—	4
4521-92-340-*	.920	3.400	.032	1.180	1.010	.610	.140	.350	.900	—	4
4521-92-380-*	.920	3.800	.032	1.180	1.010	.610	.140	.400	1.000	—	4
4521-95-30-*	.950	.300	.032	1.210	1.100	.635	.140	.150	—	—	1

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

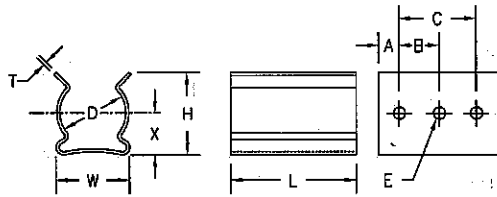
- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

Solder Lugs
Spring Clips
Spring Washers
Shoulder Washers
Stand Off Spacers
Flat Round Washers – Metallic
Flat Round Washers – Non-Metallic
O-Rings
Retaining Rings
Lockwashers, Retention Washers & Push-on Nuts
Clamps & Brackets
Expansion Plugs
Ground Straps, Bus Bars & Term. Blocks
Tab & Notch Washers
Misc. Washers & Tags
Solid State Insulators
Military Standards
Custom Parts
Engineering Tables
Num. & Alpha. Index of Parts

# SPRING CLIPS (Continued)

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ± .015	L LENGTH ± .010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ± .020	E HOLE DIA. ± .003	A ± .005	B ± .005	C ± .005	NO. OF HOLES
4521-95-40-*	.950	.400	.032	1.210	1.100	.635	.140	.200	—	—	1
4522-95-50-*	.950	.500	.032	1.210	1.100	.635	.103	.100	.300	—	2
4521-95-60-*	.950	.600	.032	1.210	1.100	.635	.140	.150	.300	—	2
4521-95-80-*	.950	.800	.032	1.210	1.100	.635	.140	.200	.400	—	2
4521-95-100-*	.950	1.000	.032	1.210	1.100	.635	.140	.200	.600	—	2
4521-95-120-*	.950	1.200	.032	1.210	1.100	.635	.140	.300	.600	—	2
4521-95-140-*	.950	1.400	.032	1.210	1.100	.635	.140	.300	.800	—	2
4521-95-160-*	.950	1.600	.032	1.210	1.100	.635	.140	.400	.800	—	2
4521-95-180-*	.950	1.800	.032	1.210	1.100	.635	.140	.400	1.000	—	2
4521-95-200-*	.950	2.000	.032	1.210	1.100	.635	.140	.300	.700	1.400	3
4521-95-220-*	.950	2.200	.032	1.210	1.100	.635	.140	.300	.800	1.600	3
4521-95-240-*	.950	2.400	.032	1.210	1.100	.635	.140	.400	.800	1.600	3
4521-95-260-*	.950	2.600	.032	1.210	1.100	.635	.140	.400	.900	1.800	3
4521-95-300-*	.950	3.000	.032	1.210	1.100	.635	.140	.300	.800	—	4
4521-95-340-*	.950	3.400	.032	1.210	1.100	.635	.140	.350	.900	—	4
4521-95-380-*	.950	3.800	.032	1.210	1.100	.635	.140	.400	1.000	—	4
4521-98-30-*	.980	.300	.032	1.240	1.100	.649	.140	.150	—	—	1
4521-98-40-*	.980	.400	.032	1.240	1.100	.649	.140	.200	—	—	1
4522-98-50-*	.980	.500	.032	1.240	1.100	.649	.103	.100	.300	—	2
4521-98-60-*	.980	.600	.032	1.240	1.100	.649	.140	.150	.300	—	2
4521-98-80-*	.980	.800	.032	1.240	1.100	.649	.140	.200	.400	—	2
4521-98-100-*	.980	1.000	.032	1.240	1.100	.649	.140	.200	.600	—	2
4521-98-120-*	.980	1.200	.032	1.240	1.100	.649	.140	.300	.600	—	2
4521-98-140-*	.980	1.400	.032	1.240	1.100	.649	.140	.300	.800	—	2
4521-98-160-*	.980	1.600	.032	1.240	1.100	.649	.140	.400	.800	—	2
4521-98-180-*	.980	1.800	.032	1.240	1.100	.649	.140	.400	1.000	—	2
4521-98-200-*	.980	2.000	.032	1.240	1.100	.649	.140	.300	.700	1.400	3
4521-98-220-*	.980	2.200	.032	1.240	1.100	.649	.140	.300	.800	1.600	3
4521-98-240-*	.980	2.400	.032	1.240	1.100	.649	.140	.400	.800	1.600	3
4521-98-260-*	.980	2.600	.032	1.240	1.100	.649	.140	.400	.900	1.800	3
4521-98-300-*	.980	3.000	.032	1.240	1.100	.649	.140	.300	.800	—	4
4521-98-340-*	.980	3.400	.032	1.240	1.100	.649	.140	.350	.900	—	4
4521-98-380-*	.980	3.800	.032	1.240	1.100	.649	.140	.400	1.000	—	4
4521-100-62-*	1.000	.625	.024	1.230	1.070	.670	.128	.156	.312	—	2
4522-100-75-*	1.000	.750	.024	1.230	1.070	.670	.128	.187	.375	—	2

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

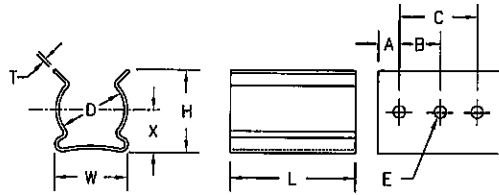
**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

# SPRING CLIPS (Continued)

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	C ±.005	NO. OF HOLES
4521-100-75-*	1.000	.750	.024	1.230	1.070	.670	.144	.187	.375	—	2
4522-100-100-*	1.000	1.000	.024	1.230	1.070	.670	.128	.266	.466	—	2
4521-100-100-*	1.000	1.000	.024	1.230	1.070	.670	.144	.266	.466	—	2
4521-100-118-*	1.000	1.187	.024	1.230	1.070	.670	.128	.250	.688	—	2
4522-100-146-*	1.000	1.468	.024	1.230	1.070	.670	.128	.266	.468	.937	3
4521-100-146-*	1.000	1.468	.024	1.230	1.070	.670	.144	.266	.468	.937	3
4522-100-187-*	1.000	1.875	.032	1.230	1.070	.640	.128	.250	.688	1.375	3
4521-100-187-*	1.000	1.875	.032	1.230	1.070	.640	.144	.250	.688	1.375	3
4521-100-200-*	1.000	2.000	.032	1.230	1.070	.640	.144	.312	.688	1.375	3
4521-101-30-*	1.010	.300	.032	1.270	1.120	.667	.140	.150	—	—	1
4521-101-40-*	1.010	.400	.032	1.270	1.120	.667	.140	.200	—	—	1
4522-101-50-*	1.010	.500	.032	1.270	1.120	.667	.103	.100	.300	—	2
4521-101-60-*	1.010	.600	.032	1.270	1.120	.667	.140	.150	.300	—	2
4521-101-80-*	1.010	.800	.032	1.270	1.120	.667	.140	.200	.400	—	2
4521-101-100-*	1.010	1.000	.032	1.270	1.120	.667	.140	.200	.600	—	2
4521-101-120-*	1.010	1.200	.032	1.270	1.120	.667	.140	.300	.600	—	2
4522-101-140-*	1.010	1.400	.024	1.270	1.120	.667	.140	.300	.800	—	2
4521-101-140-*	1.010	1.400	.032	1.270	1.120	.667	.140	.300	.800	—	2
4521-101-160-*	1.010	1.600	.032	1.270	1.120	.667	.140	.400	.800	—	2
4521-101-180-*	1.010	1.800	.032	1.270	1.120	.667	.140	.400	1.000	—	2
4521-101-200-*	1.010	2.000	.032	1.270	1.120	.667	.140	.300	.700	1.400	3
4521-101-220-*	1.010	2.200	.032	1.270	1.120	.667	.140	.300	.800	1.600	3
4521-101-240-*	1.010	2.400	.032	1.270	1.120	.667	.140	.400	.800	1.600	3
4521-101-260-*	1.010	2.600	.032	1.270	1.120	.667	.140	.400	.900	1.800	3
4521-101-300-*	1.010	3.000	.032	1.270	1.120	.667	.140	.300	.800	—	4
4521-101-340-*	1.010	3.400	.032	1.270	1.120	.667	.140	.350	.900	—	4
4521-101-380-*	1.010	3.800	.032	1.270	1.120	.667	.140	.400	1.000	—	4
4522-112-30-*	1.120	.300	.032	1.360	1.200	.727	.128	.150	—	—	1
4521-112-30-*	1.120	.300	.032	1.360	1.200	.727	.140	.150	—	—	1
4522-112-37-*	1.120	.375	.032	1.360	1.200	.727	.128	.187	—	—	1
4521-112-37-*	1.120	.375	.032	1.360	1.200	.727	.140	.187	—	—	1
4521-112-40-*	1.120	.400	.032	1.360	1.200	.727	.140	.200	—	—	1
4522-112-50-*	1.120	.500	.032	1.360	1.200	.727	.103	.100	.300	—	2
4521-112-60-*	1.120	.600	.032	1.360	1.200	.727	.140	.150	.300	—	2
4522-112-62-*	1.120	.625	.032	1.360	1.200	.727	.128	.156	.312	—	2

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

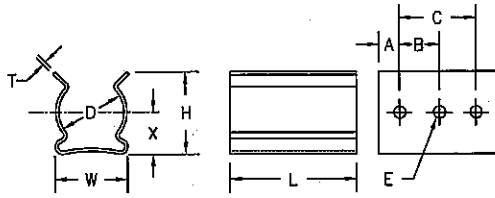
- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

- Solder Lugs
- Spring Clips
- Spring Washers
- Shoulder Washers
- Stand Off Spacers
- Flat Round Washers - Metallic
- Flat Round Washers - Non-Metallic
- O-Rings
- Retaining Rings
- Lockwashers, Retention Washers & Push-on Nuts
- Clamps & Brackets
- Expansion Plugs
- Ground Straps, Bus Bars & Term. Blocks
- Tab & Notch Washers
- Misc. Washers & Tags
- Solid State Insulators
- Military Standards
- Custom Parts
- Engineering Tables
- Num. & Alpha. Index of Parts

# SPRING CLIPS (Continued)

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	C ±.005	NO. OF HOLES
4521-112-62-*	1.120	.625	.032	1.360	1.200	.727	.140	.156	.312	—	2
4523-112-75-*	1.120	.750	.032	1.360	1.200	.727	.128	.187	.375	—	2
4521-112-75-*	1.120	.750	.032	1.360	1.200	.727	.140	.187	.375	—	2
4521-112-80-*	1.120	.800	.032	1.360	1.200	.727	.140	.200	.400	—	2
4521-112-100-*	1.120	1.000	.032	1.360	1.200	.727	.140	.200	.600	—	2
4521-112-120-*	1.120	1.200	.032	1.360	1.200	.727	.140	.300	.600	—	2
4521-112-137-*	1.120	1.375	.032	1.360	1.210	.740	.162	.218	.468	.938	3
4521-112-140-*	1.120	1.400	.032	1.360	1.200	.727	.140	.300	.800	—	2
4521-112-160-*	1.120	1.600	.032	1.360	1.200	.727	.140	.400	.800	—	2
4521-112-180-*	1.120	1.800	.032	1.360	1.200	.727	.140	.400	1.000	—	2
4521-112-200-*	1.120	2.000	.032	1.360	1.200	.727	.140	.300	.700	1.400	3
4521-112-220-*	1.120	2.200	.032	1.360	1.200	.727	.140	.300	.800	1.600	3
4521-112-240-*	1.120	2.400	.032	1.360	1.200	.727	.140	.400	.800	1.600	3
4521-112-260-*	1.120	2.600	.032	1.360	1.200	.727	.140	.400	.900	1.800	3
4521-112-300-*	1.120	3.000	.032	1.360	1.200	.727	.140	.300	.800	—	4
4521-112-340-*	1.120	3.400	.032	1.360	1.200	.727	.140	.350	.900	—	4
4521-112-380-*	1.120	3.800	.032	1.360	1.200	.727	.140	.400	1.000	—	4
4521-125-37-*	1.250	.375	.020	1.370	1.330	.750	.162	.187	—	—	1
4521-125-100-*	1.250	1.000	.020	1.370	1.330	.750	.162	.187	.625	—	2
4521-125-125-*	1.250	1.250	.020	1.370	1.330	.750	.162	.625	—	—	1
4521-125-137-*	1.250	1.375	.020	1.370	1.330	.750	.162	.218	.468	.937	3
4521-125-200-*	1.250	2.000	.020	1.370	1.330	.750	.162	.250	.750	1.500	3
4522-125-200-*	1.250	2.000	.032	1.370	1.330	.750	.162	.250	.750	1.500	3

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

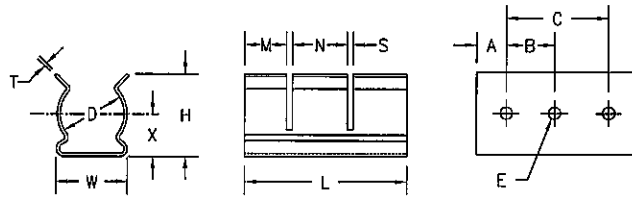
- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •



# SPRING CLIPS (Continued)

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ± .015	L LENGTH ± .010	T MATERIAL THICKNESS	H HEIGHT MAX.	W WIDTH MAX.	X ± .020	E HOLE DIA. ± .003	A ± .005	B ± .005	C ± .005	M ± .030	N ± .030	S SLOT WIDTH REF.
4527-17-25-*	.175	.250	.010	.270	.220	.150	.071	.125	—	—	.109	—	.032
4527-17-31-*	.175	.312	.010	.270	.210	.150	.065	.156	—	—	.080	—	.045
4527-17-62-*	.175	.625	.010	.270	.220	.150	.071	.125	.250	—	.300	—	.032
4528-17-62-*	.175	.625	.010	.270	.220	.150	.071	.125	.375	—	.300	—	.032
4529-17-62-*	.175	.625	.010	.270	.220	.150	.103	.137	.350	—	.300	—	.032
4527-19-37-*	.195	.375	.012	.290	.240	.160	.071	.109	.156	—	.170	—	.032
4527-19-50-*	.195	.500	.012	.290	.240	.160	.071	.125	.250	—	.235	—	.032
4527-19-62-*	.195	.625	.012	.290	.240	.160	.093	.156	.312	—	.190	.190	.032
4527-19-100-*	.195	1.000	.012	.290	.240	.160	.071	.350	.300	—	.250	.500	.032
4527-19-112-*	.195	1.125	.012	.290	.240	.160	.071	.125	.437	.875	.340	.380	.032
4527-19-118-*	.195	1.187	.010	.290	.230	.160	.071	.156	.438	.875	.380	.380	.032
4527-23-62-*	.235	.625	.012	.340	.280	.190	.093	.156	.312	—	.190	.190	.032
4527-23-75-*	.235	.750	.012	.340	.280	.190	.093	.156	.437	—	.360	—	.032
4527-24-50-*	.240	.500	.012	.340	.280	.190	.103	.100	.300	—	.235	—	.032
4527-26-31-*	.260	.312	.012	.360	.300	.200	.071	.125	—	—	.110	—	.032
4528-26-31-*	.260	.312	.012	.360	.300	.200	.071	.156	—	—	.140	—	.032
4527-26-50-*	.260	.500	.012	.360	.300	.200	.071	.125	.250	—	.235	—	.032
4527-31-31-*	.312	.312	.010	.400	.342	.218	.093	.156	—	—	.075	—	.045
4527-31-50-*	.312	.500	.010	.400	.342	.218	.093	.093	.312	—	.235	—	.032
4528-31-50-*	.312	.500	.010	.400	.342	.218	.103	.093	.312	—	.235	—	.032
4527-31-75-*	.312	.750	.016	.400	.360	.230	.093	.156	.282	—	.360	—	.032
4528-31-75-*	.312	.750	.016	.400	.360	.230	.093	.156	.438	—	.360	—	.032
4529-31-75-*	.312	.750	.016	.400	.360	.230	.103	.156	.438	—	.360	—	.032
4527-33-37-*	.335	.375	.012	.480	.420	.270	.098	.187	—	—	.125	—	.032
4527-37-37-*	.375	.375	.012	.470	.420	.260	.067	.187	—	—	.125	—	.032
4528-37-37-*	.375	.375	.012	.470	.420	.260	.098	.187	—	—	.125	—	.032
4527-37-75-*	.375	.750	.012	.470	.420	.260	.093	.187	.375	—	.360	—	.032
4528-37-75-*	.375	.750	.012	.470	.420	.260	.093	.171	.406	—	.360	—	.032
4529-37-75-*	.375	.750	.012	.470	.420	.260	.103	.150	.450	—	.228	.228	.032
4527-37-100-*	.375	1.000	.012	.470	.420	.260	.093	.093	.406	.813	.280	.380	.032
4528-37-118-*	.375	1.187	.012	.470	.420	.260	.067	.187	.406	.813	.380	.380	.032
4527-37-118-*	.375	1.187	.012	.470	.420	.260	.093	.187	.406	.813	.380	.380	.032
4529-37-118-*	.375	1.187	.012	.470	.420	.260	.103	.187	.406	.813	.380	.380	.032
4527-40-75-*	.400	.750	.016	.520	.460	.290	.103	.187	.188	—	.360	—	.032
4528-40-75-*	.400	.750	.016	.520	.460	.290	.103	.187	.375	—	.360	—	.032

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

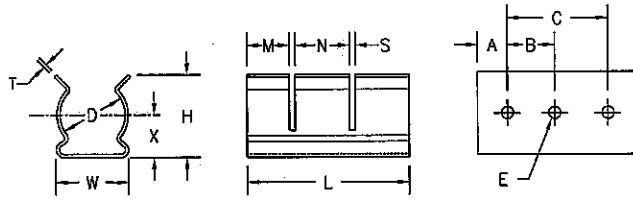
- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

- Solder Lugs
- Spring Clips**
- Spring Washers
- Shoulder Washers
- Stand Off Spacers
- Flat Round Washers - Metallic
- Flat Round Washers - Non-Metallic
- O-Rings
- Retaining Rings
- Lockwashers, Retention Washers & Push-on Nuts
- Clamps & Brackets
- Expansion Plugs
- Ground Straps, Bus Bars & Term. Blocks
- Tab & Notch Washers
- Misc. Washers & Tags
- Solid State Insulators
- Military Standards
- Custom Parts
- Engineering Tables
- Num. & Alpha. Index of Parts

# SPRING CLIPS (Continued)

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ± .015	L LENGTH ± .010	T MATERIAL THICKNESS	H HEIGHT MAX.	W WIDTH MAX.	X ± .020	E HOLE DIA. ± .003	A ± .005	B ± .005	C ± .005	M ± .030	N ± .030	S SLOT WIDTH REF.
4529-40-75-*	.400	.750	.016	.520	.460	.290	.103	.218	.312	—	.360	—	.032
4527-40-87-*	.400	.875	.012	.510	.440	.280	.093	.187	.500	—	.190	.190	.032
4527-40-100-*	.400	1.000	.012	.510	.440	.280	.093	.093	.406	.813	.280	.380	.032
4527-40-112-*	.400	1.125	.016	.510	.440	.280	.103	.187	.375	.750	.340	.380	.032
4527-40-118-*	.400	1.187	.016	.510	.440	.280	.103	.187	.406	.813	.380	.380	.032
4527-50-75-*	.500	.750	.016	.630	.550	.330	.093	.172	.406	—	.360	—	.032
4529-50-103-*	.500	1.031	.016	.630	.550	.330	.093	.234	.562	—	.230	.230	.032
4527-50-103-*	.500	1.031	.016	.630	.550	.330	.093	.250	.532	—	.230	.230	.032
4530-50-103-*	.500	1.031	.016	.630	.550	.330	.093	.250	.562	—	.230	.230	.032
4528-50-103-*	.500	1.031	.016	.630	.550	.330	.128	.250	.532	—	.230	.230	.032
4527-50-162-*	.500	1.625	.016	.620	.550	.340	.128	.250	.562	1.125	.562	.440	.032
4527-56-37-*	.562	.375	.016	.710	.610	.400	.128	.187	—	—	.170	—	.032
4527-56-62-*	.562	.625	.016	.710	.610	.400	.128	.156	.156	—	.300	—	.032
4529-56-62-*	.562	.625	.016	.710	.610	.400	.103	.156	.312	—	.300	—	.032
4528-56-62-*	.562	.625	.016	.710	.610	.400	.128	.156	.312	—	.300	—	.032
4527-56-100-*	.562	1.000	.016	.710	.610	.400	.128	.187	.312	.625	.312	.312	.032
4527-56-106-*	.562	1.062	.016	.710	.610	.400	.128	.250	.562	—	.330	.330	.032
4527-56-162-*	.562	1.625	.022	.710	.620	.410	.128	.250	.562	1.125	.560	.440	.032
4527-67-75-*	.670	.750	.016	.820	.720	.500	.128	.156	.281	—	.360	—	.032
4528-67-75-*	.670	.750	.016	.820	.720	.500	.128	.156	.437	—	.360	—	.032
4527-67-100-*	.670	1.000	.016	.820	.720	.500	.128	.250	.500	—	.312	.312	.032
4528-67-137-*	.670	1.375	.024	.840	.740	.470	.128	.250	.437	.875	.440	.440	.032
4527-75-62-*	.750	.625	.028	.940	.830	.530	.144	.312	—	—	.187	.187	.032
4527-75-125-*	.750	1.250	.028	.940	.830	.530	.144	.250	.750	—	.395	.395	.032
4527-75-150-*	.750	1.500	.028	.940	.830	.530	.144	.375	.750	—	.480	.480	.032
4527-75-200-*	.750	2.000	.028	.940	.830	.530	.144	.250	.750	1.500	.640	.640	.032
4528-75-200-*	.750	2.000	.028	.940	.830	.530	.156	.250	.750	1.500	.640	.640	.032
4527-87-62-*	.875	.625	.024	1.036	.950	.670	.128	.156	.312	—	.190	.190	.032
4527-87-100-*	.875	1.000	.024	1.036	.950	.670	.128	.266	.468	—	.312	.312	.032
4527-87-150-*	.875	1.500	.024	1.036	.950	.670	.144	.250	1.000	—	.480	.480	.032
4527-87-187-*	.875	1.875	.024	1.036	.950	.670	.128	.250	.688	1.375	.600	.600	.032
4527-87-200-*	.875	2.000	.028	1.120	.950	.630	.144	.250	.750	1.500	.640	.640	.032
4528-100-100-*	1.000	1.000	.032	1.240	1.080	.680	.128	.266	.468	—	.312	.312	.032
4527-100-100-*	1.000	1.000	.032	1.240	1.080	.680	.144	.266	.468	—	.312	.312	.032
4527-100-187-*	1.000	1.875	.032	1.240	1.080	.680	.144	.250	.688	1.375	.600	.600	.032

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

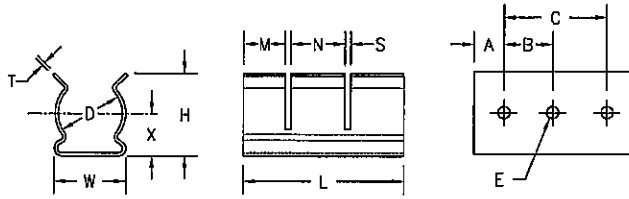
**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

# SPRING CLIPS *(Continued)*

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	C ±.005	M ±.030	N ±.030	S SLOT WIDTH REF.	NO. SLOTS
4558-34-37-*	.340	.375	.012	.480	.420	.270	.099	.187	—	—	.125	—	.032	1
4558-72-162-*	.720	1.625	.016	.820	.725	.485	.128	.250	.562	1.125	.245	.245	.032	5

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

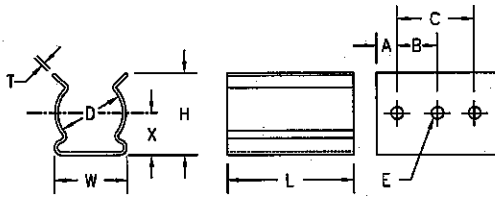
- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

- Solder Lugs
- Spring Clips**
- Spring Washers
- Shoulder Washers
- Stand Off Spacers
- Flat Round Washers – Metallic
- Flat Round Washers – Non-Metallic
- O-Rings
- Retaining Rings
- Lockwashers, Retention Washers & Push-on Nuts
- Clamps & Brackets
- Expansion Plugs
- Ground Straps, Bus Bars & Term. Blocks
- Tab & Notch Washers
- Misc. Washers & Tags
- Solid State Insulators
- Military Standards
- Custom Parts
- Engineering Tables
- Num. & Alpha. Index of Parts

# SPRING CLIPS (Continued)

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	C ±.005
4508-17-12-*	.170	.120	.010	.270	.220	.135	.065	.060	—	—
4508-17-30-*	.170	.300	.012	.280	.220	.170	.064	.072	.156	—
4508-25-25-*	.250	.250	.025	.460	.350	.250	.131	.125	—	—
4508-25-31-*	.250	.312	.025	.460	.350	.250	.131	.156	—	—
4509-25-37-*	.250	.375	.020	.460	.350	.250	.120	.187	—	—
4508-25-37-*	.250	.375	.025	.460	.350	.250	.131	.187	—	—
4508-25-43-*	.250	.437	.025	.460	.350	.250	.131	.219	—	—
4508-25-50-*	.250	.500	.025	.460	.350	.250	.131	.250	—	—
4508-33-37-*	.335	.375	.012	.480	.420	.270	.098	.187	—	—
4508-34-62-*	.344	.625	.032	.750	.468	.468	.128	.312	—	—
4510-37-37-*	.375	.375	.016	.750	.468	.468	.170	.187	—	—
4508-37-37-*	.375	.375	.032	.750	.468	.468	.170	.187	—	—
4509-37-37-*	.375	.375	.032	.750	.468	.468	.190	.187	—	—
4508-37-38-*	.375	.380	.016	.460	.330	.250	.096	.090	.200	—
4508-40-31-*	.400	.312	.010	.500	.435	.283	.072	.062	.187	—
4508-40-50-*	.400	.500	.010	.500	.435	.278	.129	.250	—	—
4508-40-75-*	.400	.750	.010	.500	.435	.278	.103	.187	.375	—
4508-40-87-*	.400	.875	.010	.500	.435	.278	.098	.187	.500	—
4508-40-95-*	.400	.950	.016	.530	.460	.295	.078	.187	.578	—
4509-50-37-*	.500	.375	.016	.630	.540	.335	.093	.187	—	—
4508-50-37-*	.500	.375	.020	.890	.567	.500	.173	.187	—	—
4508-50-50-*	.500	.500	.020	.890	.567	.500	.173	.250	—	—
4508-50-62-*	.500	.625	.020	.890	.567	.500	.173	.312	—	—
4508-50-100-*	.500	1.000	.050	1.032	.620	.500	.187	.250	.500	—
4509-62-62-*	.620	.625	.025	.790	.690	.467	.144	.312	—	—
4509-62-125-*	.620	1.250	.025	.790	.690	.467	.144	.250	.750	—
4508-62-62-*	.625	.625	.020	.700	.650	.430	.133	.312	—	—
4508-62-100-*	.625	1.000	.020	.700	.650	.430	.133	.250	.500	—
4508-62-162-*	.625	1.620	.020	.700	.650	.430	.133	.312	1.000	—
4508-75-62-*	.750	.625	.016	.936	.790	.516	.129	.250	—	—
4508-75-100-*	.750	1.000	.016	.936	.790	.516	.129	.250	.500	—
4508-75-125-*	.750	1.250	.028	.940	.840	.563	.144	.250	.750	—
4508-75-162-*	.750	1.625	.028	.940	.840	.500	.144	.250	1.125	—
4509-87-50-*	.875	.500	.040	1.550	.950	.875	.125	.250	—	—
4508-87-50-*	.875	.500	.040	1.550	.950	.875	.147	.150	.200	—

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

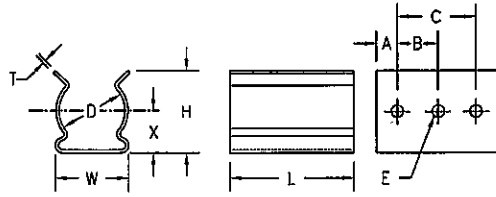
**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

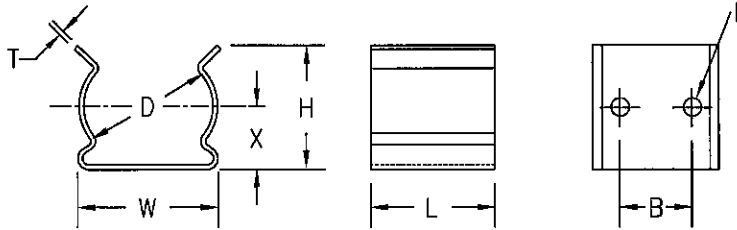
• See page 544 to specify plating finishes •

# SPRING CLIPS *(Continued)*

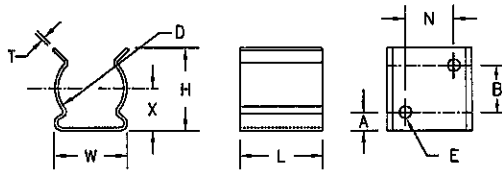
*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	C ±.005
4508-100-62-*	1.000	.625	.040	1.772	1.078	1.000	.147	.188	.250	—
4509-100-62-*	1.000	.625	.040	1.772	1.078	1.000	.228	.312	—	—
4508-100-119-*	1.000	1.190	.032	1.250	1.090	.675	.144	.250	.688	—



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	B ±.005		
4561-150-50-*	1.500	.500	.032	1.650	1.650	.850	.103	.925		



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	N ±.005
4515-87-50-*	.875	.500	.040	1.550	.950	.875	.147	.171	.158	.330
4517-100-62-*	1.000	.625	.040	1.772	1.078	1.000	.147	.188	.250	.330

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

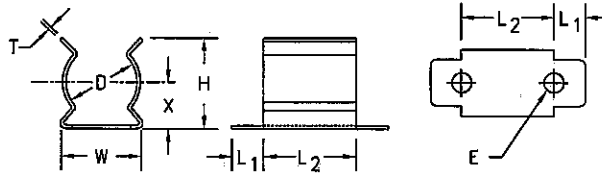
- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

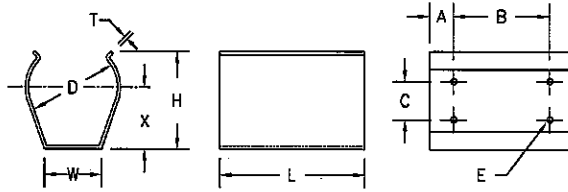
- Solder Lugs
- Spring Clips**
- Spring Washers
- Shoulder Washers
- Stand Off Spacers
- Flat Round Washers - Metallic
- Flat Round Washers - Non-Metallic
- O-Rings
- Retaining Rings
- Lockwashers, Retention Washers & Push-on Nuts
- Clamps & Brackets
- Expansion Plugs
- Ground Straps, Bus Bars & Term. Blocks
- Tab & Notch Washers
- Misc. Washers & Tags
- Solid State Insulators
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- Custom Parts
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# SPRING CLIPS (Continued)

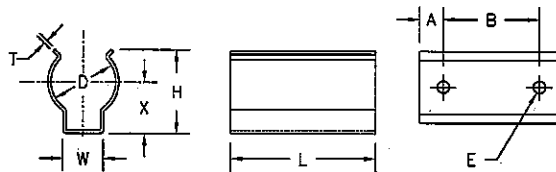
*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010		T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003		
		L <sub>1</sub>	L <sub>2</sub>							
4506-36-75-*	.360	.187	.375	.020	.640	.360	.370	.111		



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	C ±.010



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	
4511-37-37-*	.375	.375	.012	.430	.340	.217	.099	.187	—	
4511-37-50-*	.375	.500	.020	.575	.320	.330	.125	.250	—	
4511-37-75-*	.375	.750	.012	.430	.340	.217	.099	.250	.250	
4549-37-75-*	.375	.750	.012	.430	.340	.217	.130	.187	.375	
4550-37-75-*	.375	.750	.020	.430	.340	.217	.099	.250	.250	
4551-37-75-*	.375	.750	.020	.450	.340	.262	.130	.187	.375	
4567-37-75-*	.375	.750	.020	.450	.340	.262	.151	.187	.375	
4511-40-50-*	.400	.500	.020	.575	.320	.330	.102	.250	—	
4549-40-50-*	.400	.500	.020	.575	.320	.330	.125	.250	—	

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

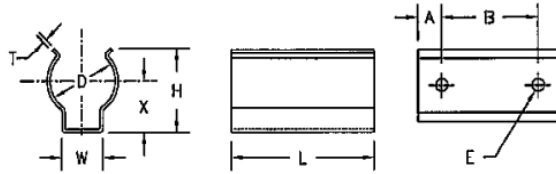
**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

# SPRING CLIPS (Continued)

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005
4511-43-37-*	.430	.375	.016	.639	.385	.353	.151	.187	—
4511-43-50-*	.430	.500	.016	.639	.385	.353	.151	.125	.250
4511-43-75-*	.430	.750	.016	.639	.385	.353	.151	.187	.375
4511-50-37-*	.500	.375	.016	.712	.385	.388	.151	.187	—
4511-50-50-*	.500	.500	.016	.712	.385	.388	.151	.125	.250
4549-50-50-*	.500	.500	.020	.650	.385	.388	.151	.125	.250
4549-50-75-*	.500	.750	.020	.580	.350	.320	.099	.250	.250
4511-50-75-*	.500	.750	.016	.712	.385	.388	.151	.187	.375
4511-56-37-*	.562	.375	.016	.812	.385	.419	.151	.187	—
4511-56-50-*	.562	.500	.016	.812	.385	.419	.151	.125	.250
4511-56-75-*	.562	.750	.016	.812	.385	.419	.151	.187	.375
4511-59-62-*	.590	.620	.012	.640	.325	.375	.099	.110	.400
4549-62-37-*	.625	.375	.018	.813	.385	.465	.103	.187	—
4511-62-37-*	.625	.375	.016	.832	.385	.450	.151	.187	—
4511-62-50-*	.625	.500	.016	.832	.385	.450	.151	.125	.250
4567-62-75-*	.625	.750	.012	.720	.360	.390	.099	.250	.250
4549-62-75-*	.625	.750	.012	.720	.360	.390	.130	.187	.375
4550-62-75-*	.625	.750	.020	.720	.360	.390	.099	.250	.250
4551-62-75-*	.625	.750	.020	.720	.360	.390	.130	.187	.375
4511-62-75-*	.625	.750	.016	.832	.385	.450	.151	.187	.375
4511-75-62-*	.750	.625	.016	1.000	.385	.513	.151	.156	.312
4549-75-62-*	.750	.625	.016	1.437	.385	.950	.125	.156	.312
4549-75-75-*	.750	.750	.020	.800	.420	.440	.099	.250	.250
4550-75-75-*	.750	.750	.020	.800	.420	.440	.130	.187	.375
4511-75-75-*	.750	.750	.016	1.000	.385	.513	.151	.187	.375
4511-75-87-*	.750	.875	.016	1.000	.385	.513	.151	.218	.437
4511-75-100-*	.750	1.000	.016	1.000	.385	.513	.151	.200	.600
4511-75-125-*	.750	1.250	.016	1.000	.385	.513	.151	.250	.750
4511-81-75-*	.813	.750	.020	.812	.530	.480	.130	.187	.375
4511-81-100-*	.813	1.000	.020	.812	.530	.480	.130	.250	.500
4511-87-68-*	.875	.687	.032	1.133	.510	.625	.188	.188	.312
4511-87-75-*	.875	.750	.020	1.061	.530	.531	.130	.187	.375
4511-87-87-*	.875	.875	.032	1.133	.510	.625	.144	.218	.437
4511-87-100-*	.875	1.000	.032	1.133	.510	.625	.144	.200	.600
4511-100-68-*	1.000	.687	.032	1.133	.510	.683	.188	.188	.312

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

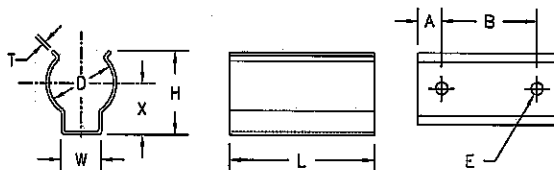
- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

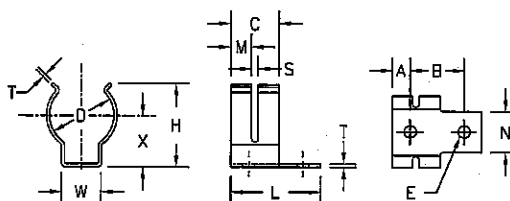
- Solder Lugs
- Spring Clips
- Spring Washers
- Shoulder Washers
- Stand Off Spacers
- Flat Round Washers - Metallic
- Flat Round Washers - Non-Metallic
- O-Rings
- Retaining Rings
- Lockwashers, Retention Washers & Push-on Nuts
- Clamps & Brackets
- Expansion Plugs
- Ground Straps, Bus Bars & Term. Blocks
- Tab & Notch Washers
- Misc. Washers & Tags
- Solid State Insulators
- Military Standards
- Custom Parts
- Engineering Tables
- Num. & Alpha. Index of Parts

# SPRING CLIPS *(Continued)*

*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005
4511-100-75-*	1.000	.750	.032	1.133	.510	.683	.144	.187	.375
4511-100-87-*	1.000	.875	.032	1.133	.510	.683	.144	.218	.437
4511-100-100-*	1.000	1.000	.032	1.133	.510	.683	.144	.200	.600
4511-137-68-*	1.375	.687	.032	1.439	.510	.880	.188	.188	.312
4511-137-75-*	1.375	.750	.032	1.439	.510	.880	.144	.187	.375
4511-137-87-*	1.375	.875	.032	1.439	.510	.880	.144	.218	.437
4511-137-100-*	1.375	1.000	.032	1.439	.510	.880	.144	.200	.600
4511-175-68-*	1.750	.688	.032	1.830	.780	1.070	.130	.188	.312
4511-175-75-*	1.750	.750	.032	1.830	.780	1.070	.130	.187	.375
4511-175-87-*	1.750	.875	.032	1.830	.780	1.070	.130	.218	.437
4511-175-100-*	1.750	1.000	.032	1.830	.780	1.070	.130	.250	.500



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	C ±.010	M ±.030	N ±.010	S SLOT WIDTH REF.
4541-34-38-*	.340	.380	.012	.380	.220	.220	.067	.065	.250	.200	.090	.150	.020

**NOTE:** All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

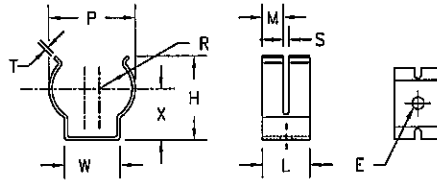
- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

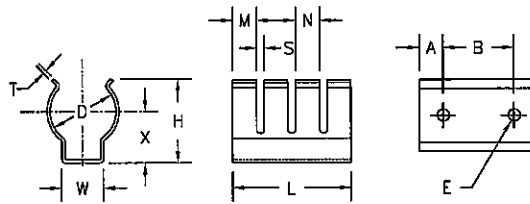


# SPRING CLIPS (Continued)

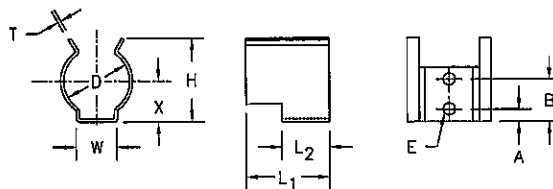
Custom Sizes Available . . . See Last Page of This Section



PART NUMBER	R ±.010	P ±.010	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	M ±.030	S SLOT WIDTH REF.
4538-22X36-25-*	.110	.366	.250	.012	.375	.285	.210	—	.109	.032
4539-22X36-25-*	.110	.366	.250	.012	.375	.285	.210	.067	.109	.032
4540-22X36-25-*	.110	.366	.250	.012	.375	.285	.210	.103	.109	.032



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	M ±.030	N ±.030	S SLOT WIDTH REF.	NO. SLOTS
4566-31-62-*	.310	.620	.012	.400	.255	.216	.066	.125	.375	.125	.125	.040	3



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010		T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005
		L <sub>1</sub>	L <sub>2</sub>							
4514-87-100-1	.875	1.000	.625	.011	.955	.645	.500	.113	.125	.375

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

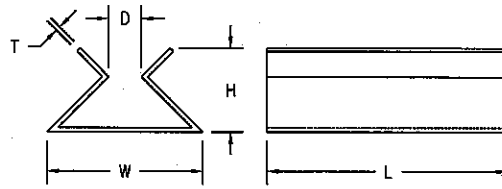
\* ADD TO PART NUMBER

- 1 for beryllium copper
- 2 for spring steel

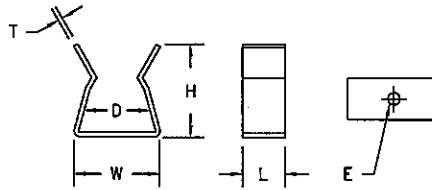
• See page 544 to specify plating finishes •

# SPRING CLIPS *(Continued)*

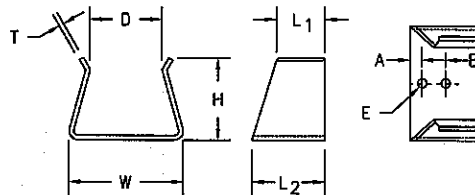
*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W WIDTH MAX.				
4562-2-200-1	.020	2.000	.005	.100	.145				



PART NUMBER	D COMPONENT SIZE ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	E HOLE DIA. ±.003			
4505-18x35-21-*	.187x.350	.216	.013	.422	.391	.116			
4505-18x35-23-*	.187x.350	.234	.013	.422	.391	.116			
4505-18x35-37-*	.187x.350	.375	.013	.422	.391	.250			



PART NUMBER	D COMPONENT SIZE ±.015	L LENGTH ±.010		T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	B ±.005	E HOLE DIA. ±.003	A ±.005
		L1	L2						
4554-100x150-112-*	1.000x1.500	.875	1.125	.032	1.281	1.787	.437	.128	.156

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

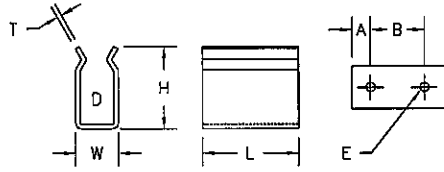
**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

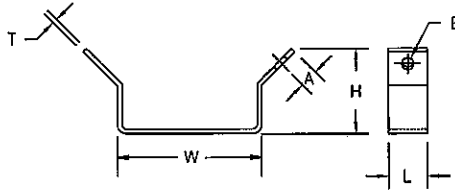
• See page 544 to specify plating finishes •

# SPRING CLIPS *(Continued)*

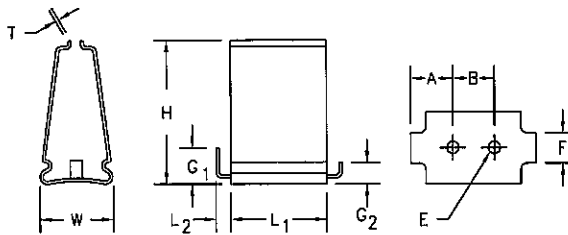
*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT SIZE ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W WIDTH MAX.	B ±.005	E HOLE DIA. ±.003	A ±.005
4519-28x35-37-*	.280x.350	.375	.012	.470	.310	—	.154	.187
4519-29x43-75-*	.290x.437	.750	.010	.605	.344	.437	.098	.156
4519-33x35-37-*	.335x.350	.375	.012	.470	.370	—	.154	.187
4519-84x140-25-*	.840x1.406	.250	.036	2.000	.840	—	.128	.125



PART NUMBER	COMPONENT SIZE ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	A ±.005	E HOLE DIA. ±.003
4557-130x100-38-*	1.30x1.00	.380	.032	.955	1.375	.252	.125



PART NUMBER	COMPONENT SIZE ±.015		LENGTH ±.010		T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	TAB HT. ±.015		E HOLE DIA. ±.003	A ±.005	B ±.005	F ±.005
	WIDTH	HEIGHT	L <sub>1</sub>	L <sub>2</sub>				G <sub>1</sub>	G <sub>2</sub>				
4520-75x128-149-*	.750	1.281	1.125	.181	.024	1.594	.797	.375	.250	.138	.492	.500	.375

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

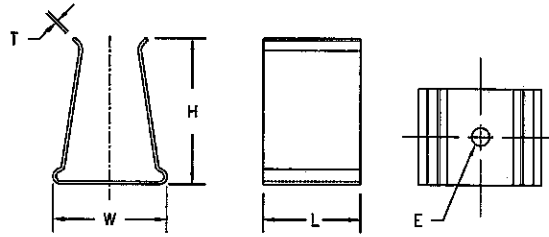
- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

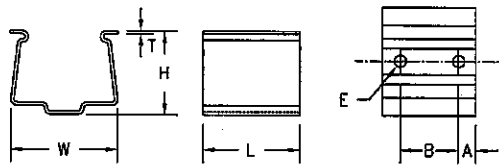
- Solder Lugs
- Spring Clips**
- Spring Washers
- Shoulder Washers
- Stand Off Spacers
- Flat Round Washers - Metallic
- Flat Round Washers - Non-Metallic
- O-Rings
- Retaining Rings
- Lockwashers, Retention Washers & Push-on Nuts
- Clamps & Brackets
- Expansion Plugs
- Ground Straps, Bus Bars & Term. Blocks
- Tab & Notch Washers
- Misc. Washers & Tags
- Solid State Insulators
- Military Standards
- Custom Parts
- Engineering Tables
- Num. & Alpha. Index of Parts

# SPRING CLIPS *(Continued)*

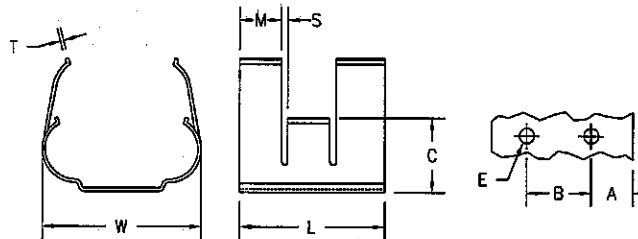
*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	COMPONENT SIZE ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W WIDTH MAX.	E HOLE DIA. ±.003			
4563-31x50-18-*	.312x.500	.187	.010	.580	.435	.102			



PART NUMBER	COMPONENT SIZE ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	B ±.005	E HOLE DIA. ±.003	A ±.005	
4556-200x390-50-*	.200x.390	.500	.010	.325	.440	.300	.093	.100	



PART NUMBER	COMPONENT SIZE ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W WIDTH MAX.	M ±.030	E HOLE DIA. ±.003	A ±.005	B ±.005	S SLOT WIDTH	C ±.005
4560-36x77-85-*	.365x.775	.850	.016	.780	.775	.245	.098	.230	.400	1/32	.420

**NOTE:** All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

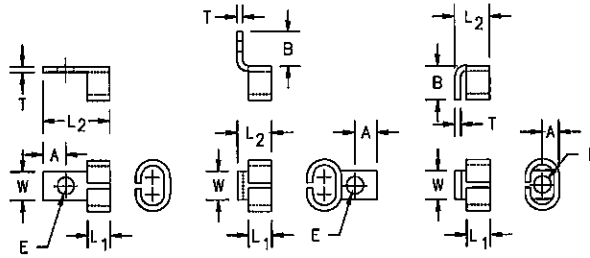
**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

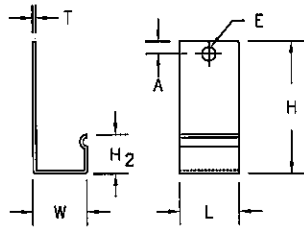
• See page 544 to specify plating finishes •

# SPRING CLIPS *(Continued)*

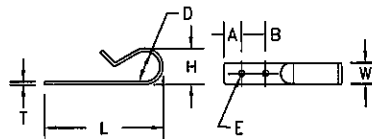
*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT SIZE ±.015	L LENGTH ±.010		H HEIGHT MAX.	A ±.005	W WIDTH MAX.	B ±.005	E HOLE DIA. ±.003
		L1	L2					
4533-17x36-25-*	.172x.365	.187	.250	.032	—	.250	—	—
4533-17x36-50-*	.172x.365	.187	.500	.032	.156	.250	—	.115
4534-17x36-26-*	.172x.365	.187	.256	.032	.156	.250	.270	.115
4535-17x36-30-*	.172x.365	.187	.304	.032	.118	.250	.236	.102



PART NUMBER	D COMPONENT SIZE ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.		W WIDTH MAX.	A ±.005	E HOLE DIA. ±.003
				H1	H2			
4507-61x114-131-1*	.610x1.140	1.312	.020	2.906	.828	1.187	.187	.128



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W WIDTH MAX.	B ±.005	E HOLE DIA. ±.003	A ±.005
4537-50-193-*	.500	1.938	.040	.600	.385	.500	.128	.312
4537-102-218-*	1.020	2.187	.025	1.090	.385	.500	.128	.312

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

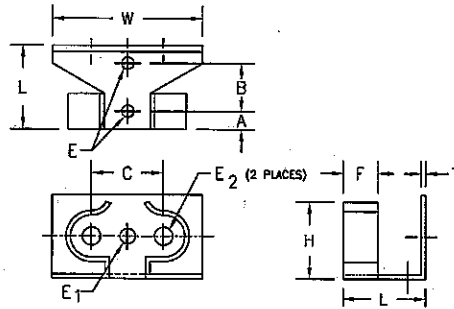
**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

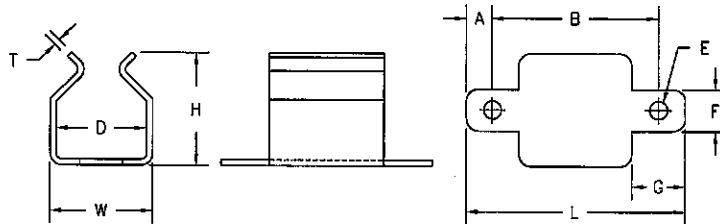
• See page 544 to specify plating finishes •

# SPRING CLIPS *(Continued)*

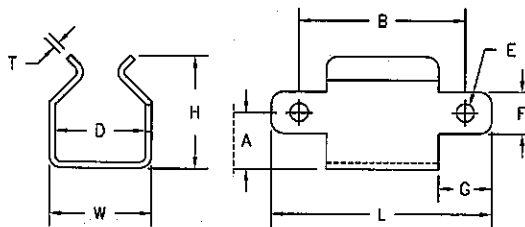
*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	COMPONENT SIZE $\pm .015$	L LENGTH $\pm .010$	T MATERIAL THICKNESS	H HEIGHT MAX.	W WIDTH MAX.	A $\pm .005$	B $\pm .005$	E HOLE DIA. $\pm .003$	E <sub>1</sub>	E <sub>2</sub>	C $\pm .005$	F $\pm .005$
4564-31x72-65-*	.312x.725	.650	.016	.440	.860	.170	.300	.094	.144	.265	.486	.250



PART NUMBER	D COMPONENT SIZE $\pm .015$	L LENGTH $\pm .010$	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	G $\pm .005$	E HOLE DIA. $\pm .003$	A $\pm .005$	B $\pm .005$	F $\pm .005$
4565-72x75-176-*	.725x.750	1.760	.025	1.280	.800	.415	.188	.250	1.253	.500



PART NUMBER	D COMPONENT SIZE $\pm .015$	L LENGTH $\pm .010$	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	G $\pm .005$	E HOLE DIA. $\pm .003$	A $\pm .005$	B $\pm .005$	F $\pm .005$
4569-72x75-176-*	.725x.750	1.760	.025	1.280	.800	.415	.188	.250	1.253	.500

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

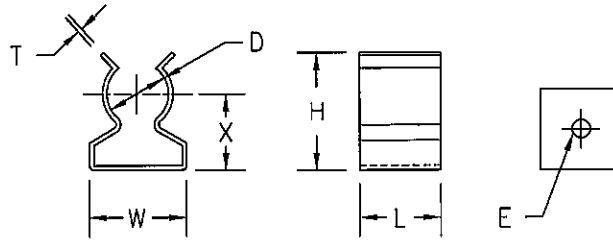
**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

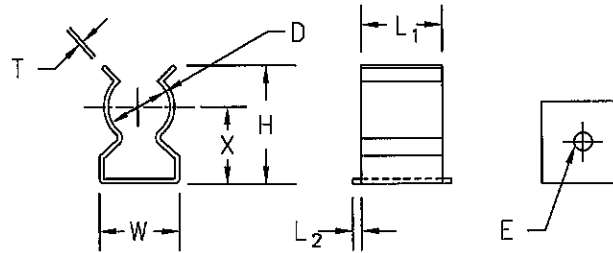
• See page 544 to specify plating finishes •

# SPRING CLIPS *(Continued)*

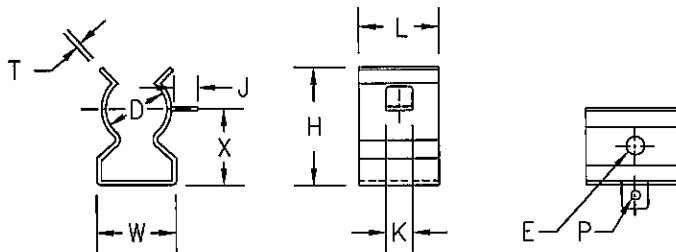
*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003			
4513-23-37-*	.230	.375	.016	.442	.385	.253	.151			
4513-33-37-*	.330	.375	.016	.510	.385	.303	.151			
4513-40-37-*	.400	.375	.016	.605	.385	.341	.151			



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010		T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003		
		L1	L2							
4504-33-25-*	.330	.188	.032	.016	.594	.430	.306	.100		



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	J ±.010	K ±.010	P ±.005
4502-53-50-*	.530	.500	.032	.812	.650	.500	.140	.190	.141	.078

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

Solder Lugs

Spring Clips

Spring Washers

Shoulder Washers

Stand Off Spacers

Flat Round Washers - Metallic

Flat Round Washers - Non-Metallic

O-Rings

Retaining Rings

Lockwashers, Retention Washers & Push-on Nuts

Clamps & Brackets

Expansion Plugs

Ground Straps, Bus Bars & Term. Blocks

Tab & Notch Washers

Misc. Washers & Tags

Solid State Insulators

Military Standards

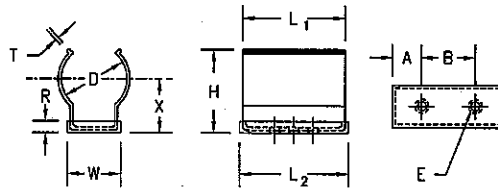
Custom Parts

Engineering Tables

Num. & Alpha. Index of Parts

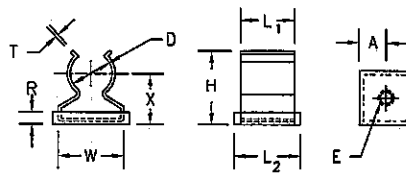
# SPRING CLIPS *(Continued)*

*Custom Sizes Available . . . See Last Page of This Section*



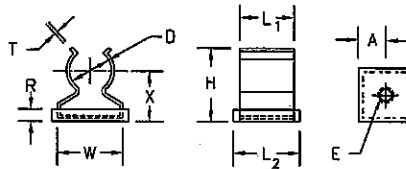
## NYLON INSULATED BASE

PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010		T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.030	E HOLE DIA. ±.005	A ±.010	B ±.005	R MAX.
		L <sub>1</sub> CLIP	L <sub>2</sub> BASE								
4547-43-43-*	.430	.375	.437	.016	.680	.470	.385	.100	.218	—	.125
4547-50-43-*	.500	.375	.437	.016	.800	.470	.420	.100	.218	—	.125
4547-56-43-*	.562	.375	.437	.016	.900	.470	.500	.100	.218	—	.125
4547-62-43-*	.625	.375	.437	.016	.900	.470	.510	.100	.218	—	.125
4547-75-106-*	.750	1.000	1.062	.016	1.050	.470	.575	.100	.231	.600	.125



## NYLON INSULATED BASE

PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010		T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.030	E HOLE DIA. ±.005	A ±.010	R MAX.
		L <sub>1</sub> CLIP	L <sub>2</sub> BASE							
4512-23-43-*	.230	.375	.437	.016	.485	.470	.300	.100	.218	.125
4512-33-43-*	.330	.375	.437	.016	.570	.470	.350	.100	.218	.125
4512-40-43-*	.400	.375	.437	.016	.610	.470	.380	.100	.218	.125



## NYLON INSULATED BASE

PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010		T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.030	E HOLE DIA. ±.005	A ±.010	R MAX.
		L <sub>1</sub> CLIP	L <sub>2</sub> BASE							
4503-33-31-*	.330	.188	.312	.016	.594	.470	.350	.070	.156	.125

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

### \* ADD TO PART NUMBER

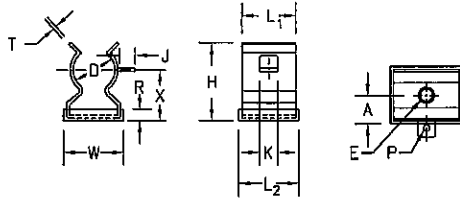
- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •



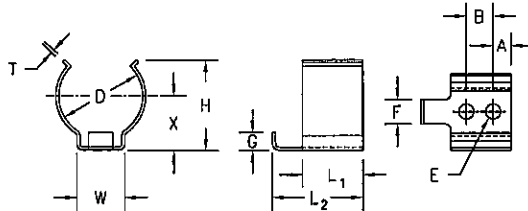
# SPRING CLIPS *(Continued)*

*Custom Sizes Available . . . See Last Page of This Section*

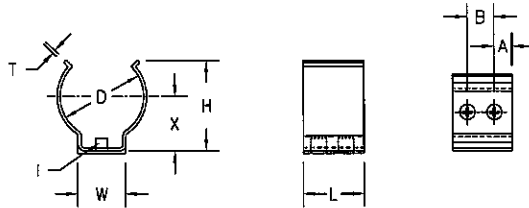


## NYLON INSULATED BASE

PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010		T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.030	E HOLE DIA. ±.005	A ±.005	J ±.010	K ±.010	P ±.005	R MAX.
		L <sub>1</sub> CLIP	L <sub>2</sub> BASE										
4501-53-56-*	.530	.500	.562	.032	.842	.740	.560	.100	.281	.190	.141	.078	.165



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010		T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	F ±.010	G ±.010
		L <sub>1</sub>	L <sub>2</sub>									
4552-87-97-*	.875	.687	.977	.032	1.144	.510	.625	.188	.188	.312	.250	.230
4552-100-97-*	1.000	.687	.977	.032	1.133	.510	.683	.188	.188	.312	.250	.230
4552-137-106-*	1.375	.687	1.062	.032	1.460	.510	.880	.188	.188	.312	.250	.250



PART NUMBER	D COMPONENT DIAMETER ±.015	L ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	I SELF LOCKING INSERT	A ±.005	B ±.005		
4543-87-68-*	.875	.687	.032	1.210	.510	.625	4-40	.188	.312		
4543-100-68-*	1.000	.687	.032	1.175	.510	.683	4-40	.188	.312		
4543-137-68-*	1.375	.687	.032	1.527	.510	.880	4-40	.188	.312		

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

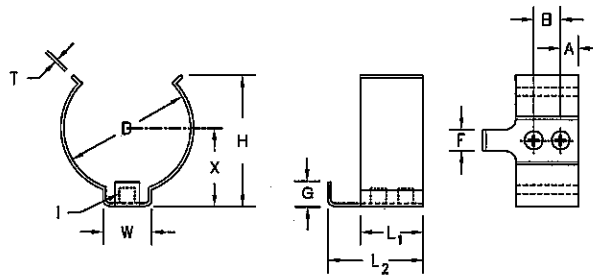
- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

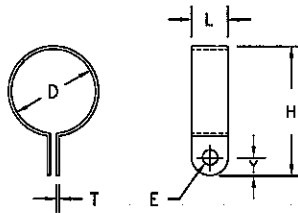
- Solder Lugs
- Spring Clips**
- Spring Washers
- Shoulder Washers
- Stand Off Spacers
- Flat Round Washers - Metallic
- Flat Round Washers - Non-Metallic
- O-Rings
- Retaining Rings
- Lockwashers, Retention Washers & Push-on Nuts
- Clamps & Brackets
- Expansion Plugs
- Ground Straps, Bus Bars & Term. Blocks
- Tab & Notch Washers
- Misc. Washers & Tags
- Solid State Insulators
- Military Standards
- Custom Parts
- Engineering Tables
- Num. & Alpha. Index of Parts

# SPRING CLIPS *(Continued)*

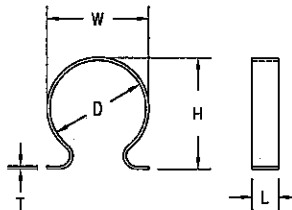
*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010		T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	I SELF LOCKING INSERT	A ±.005	B ±.005	F ±.010	G ±.010
		L <sub>1</sub>	L <sub>2</sub>									
4545-87-97-*	.875	.687	.977	.032	1.210	.510	.625	4-40	.188	.312	.250	.230
4545-100-97-*	1.000	.687	.977	.032	1.175	.510	.683	4-40	.188	.312	.250	.230
4545-137-106-*	1.375	.687	1.062	.032	1.527	.510	.880	4-40	.188	.312	.250	.250



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H ±.020	Y ±.020	E HOLE DIA. ±.003				
4518-87-37-*	.875	.375	.032	1.375	.187	.156				



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W WIDTH MAX.				
4500-35-10-*	.350	.100	.010	.435	.390				
4500-41-12-*	.415	.125	.010	.475	.435				

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

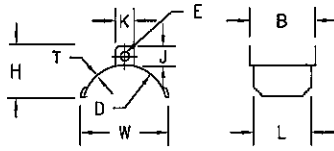
**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

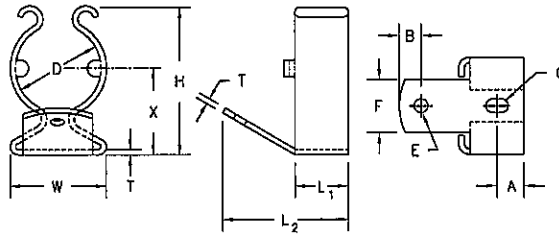
• See page 544 to specify plating finishes •

# SPRING CLIPS *(Continued)*

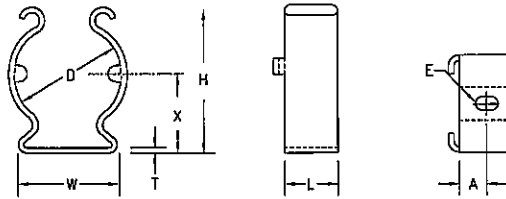
*Custom Sizes Available . . . See Last Page of This Section*



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W WIDTH MAX.	K ±.015	E HOLE DIA. ±.003	J ±.005	B ±.005
4536-112-75-*	1.125	.750	.013	.656	1.218	.250	.156	.250	.850



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010		T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	F ±.010	G ±.005
		L1	L2									
4570-100-124-*	1.000	.500	1.215	.040	1.250	.890	.775	.185	.250	.196	.730	.203X.312



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005
4571-100-50-*	1.000	.500	.040	1.250	.890	.775	.203X.312	.250

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

• See page 544 to specify plating finishes •

Solder Lugs

Spring Clips

Spring Washers

Shoulder Washers

Stand Off Spacers

Flat Round Washers - Metallic

Flat Round Washers - Non-Metallic

O-Rings

Retaining Rings

Lockwashers, Retention Washers & Push-on Nuts

Clamps & Brackets

Expansion Plugs

Ground Straps, Bus Bars & Term. Blocks

Tab & Notch Washers

Misc. Washers & Tags

Solid State Insulators

Military Standards

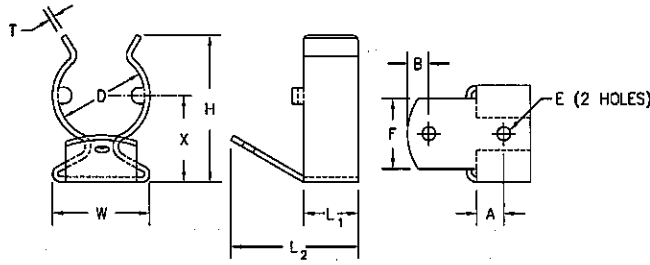
Custom Parts

Engineering Tables

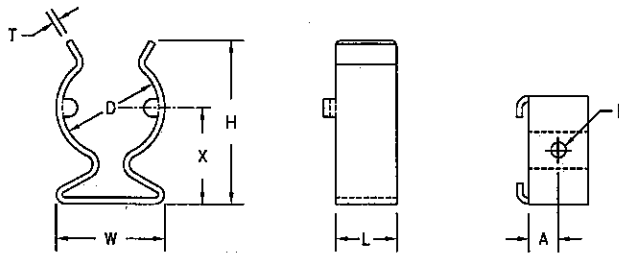
Num. & Alpha. Index of Parts

# SPRING CLIPS (Continued)

Custom Sizes Available . . . See Last Page of This Section



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010		T MATERIAL THICKNESS	H HEIGHT MAX.	W BASE WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005	B ±.005	F ±.010
		L1	L2								
4572-74-127-*	.740	.625	1.275	.032	1.270	.830	.750	.188	.312	.197	.605
4527-99-141-*	.990	.625	1.416	.040	1.790	1.100	1.027	.188	.312	.197	.778



PART NUMBER	D COMPONENT DIAMETER ±.015	L LENGTH ±.010	T MATERIAL THICKNESS	H HEIGHT MAX.	W WIDTH MAX.	X ±.020	E HOLE DIA. ±.003	A ±.005		
4573-74-62-*	.740	.625	.032	1.270	.830	.750	.188	.312		
4573-99-62-*	.990	.625	.040	1.790	1.100	1.027	.188	.312		

NOTE: All dimensions are measured with the spring clip secured to a flat surface and a dummy component of the nominal diameter in place.

**\* ADD TO PART NUMBER**

- 1 for beryllium copper
- 2 for spring steel

- See page 544 to specify plating finishes •



# NEED SOMETHING CUSTOM?

See our custom parts section beginning on page 539. Use our FAX quote cover sheet and blank print to design the exact part you need and fax it to us. We'll give it our immediate attention.

**Seastrom<sup>®</sup>**

MANUFACTURERS OF QUALITY CUSTOM AND STANDARD PARTS SINCE 1928

## HOW TO REQUEST A FAX QUOTE:

### CUSTOM SPRING CLIPS

**If your application requires a custom spring clip with dimensions not listed in this catalog, simply photocopy the adjoining page, fill in all necessary dimensions, and fax it to us at 208-734-7222. It's that simple!**

Seastrom Manufacturing can manufacture virtually any custom spring clip you require.

Locate the part number configuration to best suit your application. (See the illustrated table of contents in the front of this section.) Fill in the configuration part number on the photocopy of the Fax Quote page, as well as all necessary dimensions.\*

#### EXAMPLE

SPRING CLIP CONFIGURATION: <u>4521</u>		
D: <u>.320</u>	E <sub>2</sub> : _____	K: _____
L/L <sub>1</sub> : <u>.200</u>	A: <u>.100</u>	S: _____
L <sub>2</sub> : _____	B: _____	P: _____
T: <u>.016</u>	C: _____	# HOLES: <u>1</u>
H: <u>.430</u>	G/G <sub>1</sub> : _____	# SLOTS: _____
W: <u>.370</u>	G <sub>2</sub> : _____	M: _____
X: <u>.230</u>	J: _____	F: _____
E: <u>.103</u>	Y: _____	N: _____
E <sub>1</sub> : _____		R: _____

\*If the configuration you require does not match the configuration in the front of this section, please refer to the Custom Parts section for a fax quote cover sheet and a blank print to sketch your own design.

If we can answer any questions concerning your custom spring clip needs, please feel free to call us today at 1-800-634-2356.

# FAX QUOTE

## CUSTOM SPRING CLIPS

PLEASE FAX TO:

**SEASTROM MANUFACTURING COMPANY, INC. 208•734•7222**

**ATTENTION: Inside Sales**

DATE \_\_\_\_\_

**SPRING CLIP CONFIGURATION:** \_\_\_\_\_

D: _____	E <sub>2</sub> : _____	K: _____
L/L <sub>1</sub> : _____	A: _____	S: _____
L <sub>2</sub> : _____	B: _____	P: _____
T: _____	C: _____	# HOLES: _____
H: _____	G/G <sub>1</sub> : _____	# SLOTS: _____
W: _____	G <sub>2</sub> : _____	M: _____
X: _____	J: _____	F: _____
E: _____	Y: _____	N: _____
E <sub>1</sub> : _____		R: _____

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS WILL BE TO CATALOG TOLERANCES.\*

Material: \_\_\_\_\_

Plating: \_\_\_\_\_

Other Requirements: \_\_\_\_\_

From: \_\_\_\_\_ Title: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

DO NOT TEAR OUT ... PLEASE PHOTOCOPY

**\*See Pages 551 and 552 for commercial thickness tolerances.**

Please Quote the following:	<i>For Seastrom Use</i>	
<b>QUANTITY</b>	<b>PRICE</b>	<b>DELIVERY</b>
<b>Estimated Yearly Usage:</b>		