

Series 700 High Performance Filtered Connectors

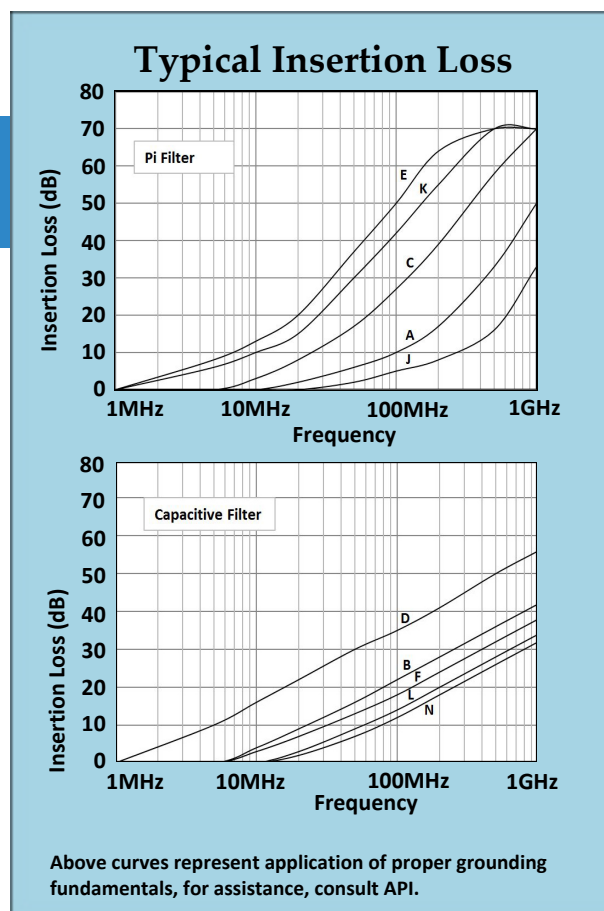
Filter Selection

API's Spectrum Control brand of Series 700 connectors offer the highest performance filtering for all types of professional applications.

Features

- Available in 9, 15, 25, 37 and 50 shell sizes
- Variety of termination configurations including right angle and straight PCB for both pin and socket contact and as an adapter
- Capacitive and Pi type filters in a full range of capacitance values

The catalog data for this series is presented in order of shell size, and grouped by pin and socket contacts. Part numbers must be selected from the tables within the series section.



Insertion loss measured per MIL-STD-220, no load, 50ohm source and load.

Electrical Specifications: High Performance Connectors

Filter Designations	Filter Circuits	Capacitance		3 dB Cut-off Frequency Max. (MHz)	Dielectric With-standing Voltage	Working Voltage DC -55°C to +125°C	Minimum Insertion Loss - Decibels (dB)									
		Value	Tol.				5 MHz	10 MHz	20 MHz	50 MHz	100 MHz	200 MHz	500 MHz	1 GHz		
J	Pi	100 pF	+100 -0%	32	300V	100V	—	—	—	2	5	8	16	33		
A		310 pF	±20%	17	300V	100V	—	—	2	6	10	17	33	50		
C		1000 pF	+150 -0%	3.2	300V	100V	—	3	8	17	27	39	58	70		
K		2500 pF	+100 -0%	1.3	150V	50V	6	10	15	30	42	55	70	70		
E		4000 pF	+100 -0%	0.8	150V	50V	8	13	20	37	50	64	70	70		
N	C	375 pF	±20%	14	600V	200V	—	—	2	7	12	18	26	32		
L		500 pF	±20%	10.6	600V	200V	—	—	3	9	14	20	28	34		
F		830 pF	±20%	6.4	600V	200V	—	3	7	13	18	24	32	38		
B		1000 pF	+100 -0%	3.2	600V	200V	—	4	9	16	22	28	36	42		
D		5000 pF	+100 -0%	0.64	300V	100V	10	16	22	30	35	41	50	56		

Filter designation "G" for grounded contacts, "I" for insulated (not filtered) contacts.
Filter designation "O" for omitted contact and no hole in ground plane.

Above data represents guaranteed minimum.

Series 700

Specifications and Connector Ordering

Mechanical Specifications

Shell Zinc or aluminum diecast, nickel plated
150 μ inches (3.81 μ m) min.

Insulators Glass-filled polyester,
flammability UL94V-0

Pin Contacts Copper alloy, 15 μ inches
(0.38 μ m) gold plated * over nickel

Socket Contacts Copper alloy, 30 μ inches
(0.76 μ m) gold plated * over nickel

* Heavier gold plating available upon request.
See pg. FC43: Connector Options

Terminations Gold flash for PCB mount and solder
cups. Solder dipped also available.

Ground Plane Brass, solder plated

Grounding
Springs Beryllium copper, tin plated per
MIL-T-10727

Operating
Temperature -55°C to +125°C

Capacitors Proprietary barium titanate
ceramic formulations

Electrical Specifications

Current Rating 5 Amps

R.F. Current
Rating 0.3 Amps

Contact
Resistance 10 milliohms maximum

UL Recognized Under category of communication
circuit accessories, File #E149046

Inductance on
PI Filters ~ 860 nH between 100 kHz and 1 MHz

Solder cups accept up to a 20 gauge wire.

Ordering Your Connector

STEP 1: SELECTING THE FILTER

- Using the insert loss graphs on page FC20 determine which filters provide the required attenuation at the troublesome frequency, while not affecting the signal frequency by more than 3 to 6 dB.
- Choose the filter type, either feed-through capacitor or Pi. The Pi is generally considered better due to its superior high frequency performance and steeper curve. The feed-through capacitor is lower cost.
- Select capacitance value.
- Note the Spectrum letter designation for the filter chosen from the table on page FC20.

STEP 2: SELECTING THE CONNECTOR

- Turn to the appropriate size section.
(9, 15, 25, 37, 50)
- Choose either pin contacts (plug) or socket contacts (receptacle).
- Choose the required termination type.
- From the table on the appropriate connector page, using the filter letter designation chosen in step 1 above, select the part number.

STEP 3: SPECIFYING OPTIONS

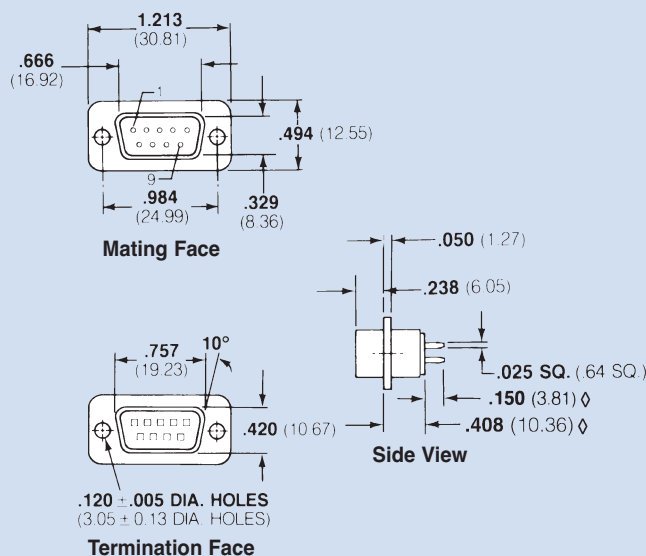
- Refer to page FC43 for special options including heavy gold plating, 4-40 mounting threads, grounding brackets, hardware, and others.
- Most options are available within the standard lead times.
- Some options require a part number suffix, while other combinations may require factory assistance for part number assignment. If a suffix is shown, add it to your selected part number. If more than one option is needed, consult with factory for part number assignment.

9 Series 700 Shell Size Pin Contact



Printed Circuit Board Mount

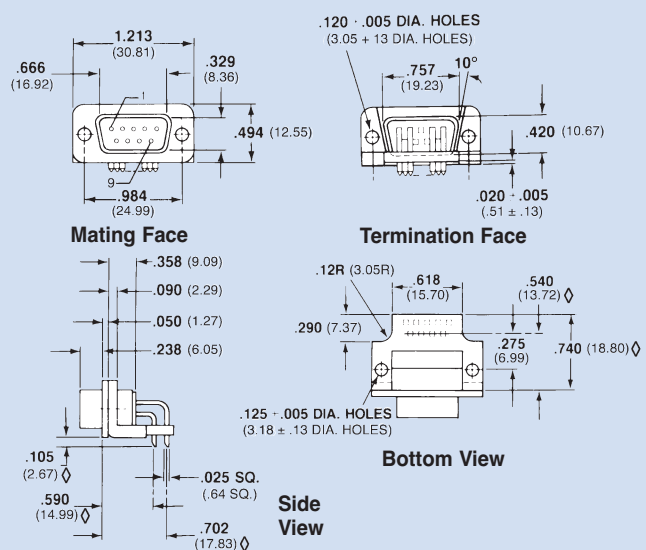
Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-701-001	A	310 pF Pi
56-701-002	B	1000 pF C
56-701-003	C	1000 pF Pi
56-701-004	D	5000 pF C
56-701-005	E	4000 pF Pi
56-701-028	F	830 pF C
56-701-029	J	100 pF Pi
56-701-030	K	2500 pF Pi
56-701-047	N	375 pF C
56-701-086	L	500 pF C



*Replace "56-" with "56F" to indicate RoHS compliant

Printed Circuit Board Right Angle Mount

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
* 56-702-001	A	310 pF Pi
56-702-002	B	1000 pF C
* 56-702-003	C	1000 pF Pi
56-702-004	D	5000 pF C
* 56-702-005	E	4000 pF Pi
56-702-007	F	830 pF C
56-702-008	J	100 pF Pi
56-702-009	K	2500 pF Pi
56-702-013	N	375 pF C
* 56-702-033	L	500 pF C



*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches (mm)

Standard Tolerance = ± 0.005 except where noted, $\diamond = \pm 0.015$

9 Series 700 Shell Size Pin Contact



Solderless Wire Wrap

Spectrum Part Number <i>Select one</i>	EMI Filter				
	L .500	L .375	L .250	Filter Desig.**	Cap. Value
56-701 -006 -022 -017				A	310 pF Pi
56-701 -007 -023 -018				B	1000 pF C
56-701 -008 -024 -019				C	1000 pF Pi
56-701 -009 -025 -020				D	5000 pF C
56-701 -010 -026 -021				E	4000 pF Pi
56-701 -037 -034 -031				F	830 pF C
56-701 -038 -035 -032				J	100 pF Pi
56-701 -039 -036 -033				K	2500 pF Pi
56-701 -050 -049 -048				N	375 pF C

*Replace "56-" with "56F" to indicate RoHS compliant

Solder Cup Termination

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
* 56-701-011	A	310 pF Pi
* 56-701-012	B	1000 pF C
* 56-701-013	C	1000 pF Pi
* 56-701-014	D	5000 pF C
* 56-701-015	E	4000 pF Pi
* 56-701-040	F	830 pF C
56-701-041	J	100 pF Pi
56-701-042	K	2500 pF Pi
56-701-081	N	375 pF C
56-701-087	L	500 pF C

*Replace "56-" with "56F" to indicate RoHS compliant

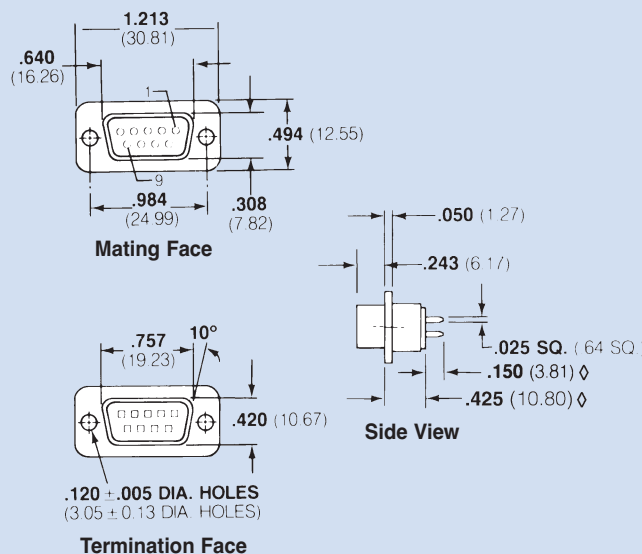
Dimensions in inches (mm)

Standard Tolerance = ± 0.005 except where noted, $\phi = \pm 0.015$



Printed Circuit Board Mount

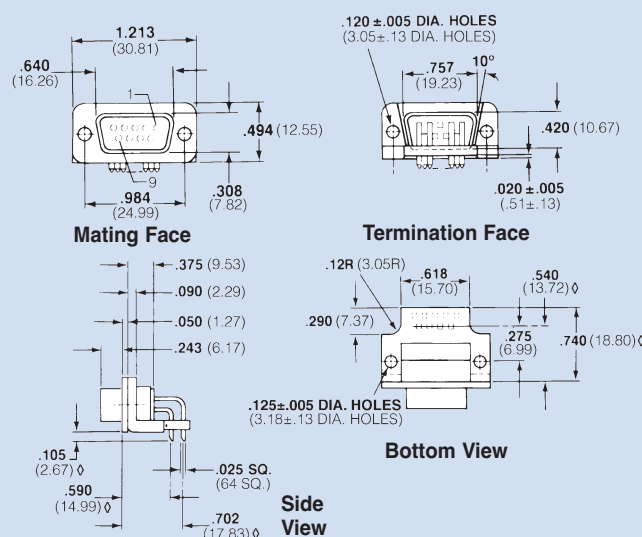
Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-703-001	A	310 pF Pi
56-703-002	B	1000 pF C
56-703-003	C	1000 pF Pi
56-703-004	D	5000 pF C
56-703-005	E	4000 pF Pi
56-703-022	F	830 pF C
56-703-023	J	100 pF Pi
56-703-024	K	2500 pF Pi
56-703-036	N	375 pF C
56-703-047	L	500 pF C



*Replace "56-" with "56F" to indicate RoHS compliant

Printed Circuit Board Right Angle Mount

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-704-001	A	310 pF Pi
56-704-002	B	1000 pF C
* 56-704-003	C	1000 pF Pi
56-704-004	D	5000 pF C
* 56-704-005	E	4000 pF Pi
56-704-007	F	830 pF C
56-704-008	J	100 pF Pi
56-704-009	K	2500 pF Pi
56-704-018	N	375 pF C
56-704-035	L	500 pF C



*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches (mm)

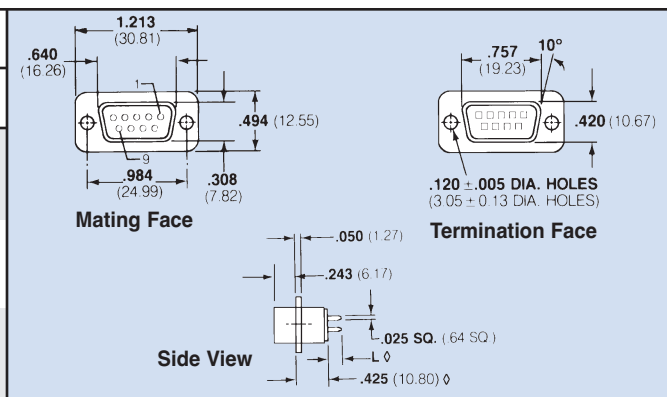
Standard Tolerance = ± 0.005 except where noted, $\phi = \pm 0.015$



Solderless Wire Wrap

Spectrum Part Number <i>Select one</i>	EMI Filter				Filter Desig.**	Cap. Value
	L .500	L .375	L .250			
56-703 -006	-016	-011			A	310 pF Pi
56-703 -007	-017	-012			B	1000 pF C
56-703 -008	-018	-013			C	1000 pF Pi
56-703 -009	-019	-014			D	5000 pF C
* 56-703 -010	-020	* -015			E	4000 pF Pi
56-703 -031	-028	-025			F	830 pF C
56-703 -032	-029	-026			J	100 pF Pi
56-703 -033	-030	-027			K	2500 pF Pi
56-703 -039	-038	-037			N	375 pF C

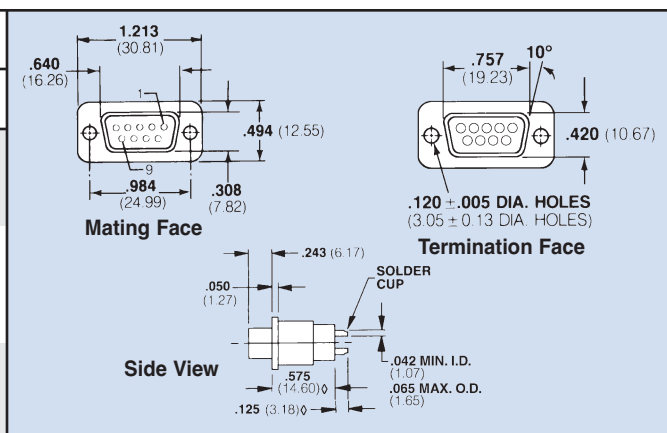
*Replace "56-" with "56F" to indicate RoHS compliant



Solder Cup Termination

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
* 56-706-001	A	310 pF Pi
56-706-002	B	1000 pF C
* 56-706-003	C	1000 pF Pi
56-706-004	D	5000 pF C
* 56-706-005	E	4000 pF Pi
56-706-006	F	830 pF C
56-706-007	J	100 pF Pi
* 56-706-008	K	2500 pF Pi
56-706-009	N	375 pF C
56-706-017	L	500 pF C

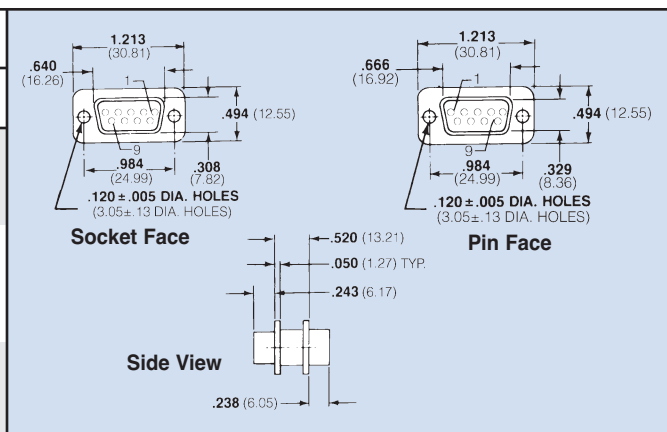
*Replace "56-" with "56F" to indicate RoHS compliant



Pin/Socket Adapter

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
* 56-705-001	A	310 pF Pi
56-705-002	B	1000 pF C
* 56-705-003 €	C	1000 pF Pi
56-705-004	D	5000 pF C
* 56-705-005 €	E	4000 pF Pi
* 56-705-008	F	830 pF C
56-705-009	J	100 pF Pi
56-705-010	K	2500 pF Pi
56-705-026	N	375 pF C
56-705-049	L	500 pF C

*Replace "56-" with "56F" to indicate RoHS compliant



Dimensions in inches (mm)

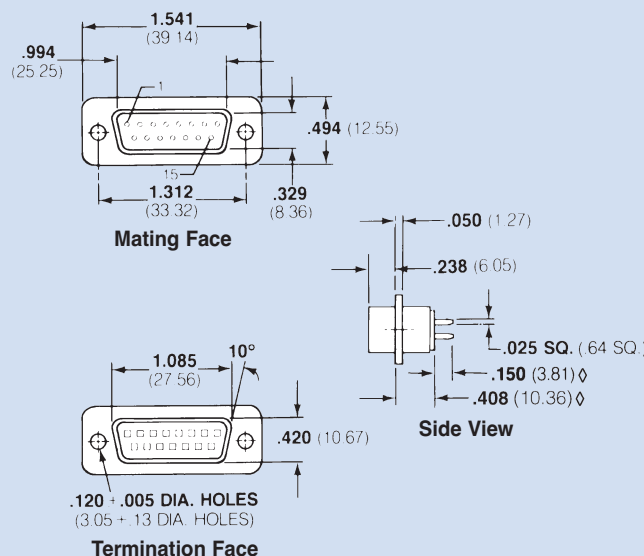
Standard Tolerance = ±.005 except where noted, φ = ±.015

15 Series 700 Shell Size Pin Contact



Printed Circuit Board Mount

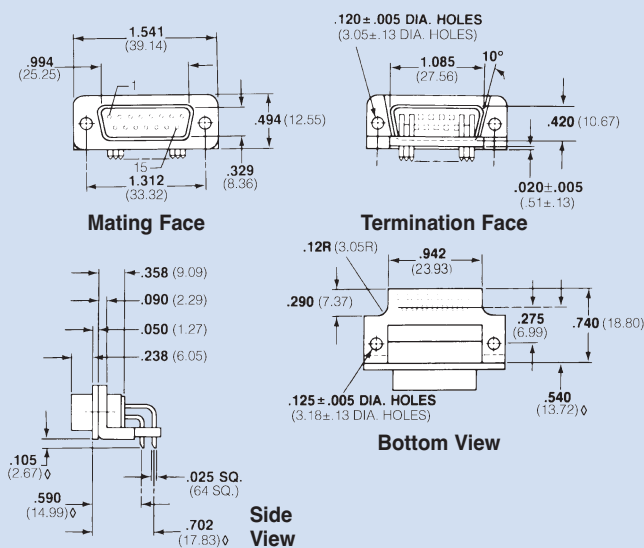
Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-711-001	A	310 pF Pi
56-711-002	B	1000 pF C
56-711-003	C	1000 pF Pi
56-711-004	D	5000 pF C
56-711-005	E	4000 pF Pi
56-711-028	F	830 pF C
56-711-029	J	100 pF Pi
56-711-030	K	2500 pF Pi
56-711-048	N	375 pF C
56-711-088	L	500 pF C



*Replace "56-" with "56F" to indicate RoHS compliant

Printed Circuit Board Right Angle Mount

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
* 56-712-001	A	310 pF Pi
56-712-002	B	1000 pF C
* 56-712-003	C	1000 pF Pi
56-712-004	D	5000 pF C
* 56-712-005	E	4000 pF Pi
* 56-712-007	F	830 pF C
56-712-008	J	100 pF Pi
56-712-009	K	2500 pF Pi
56-712-017	N	375 pF C
56-712-039	L	500 pF C



*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches (mm)

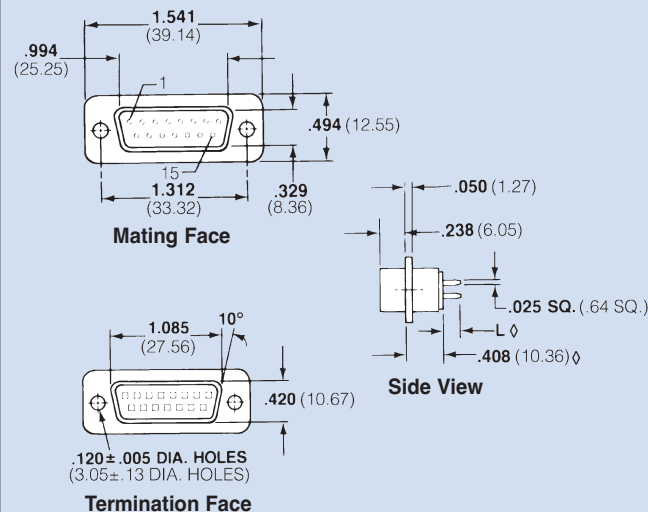
Standard Tolerance = ± 0.005 except where noted, $\diamond = \pm 0.015$

15 Series 700 Shell Size Pin Contact



Solderless Wire Wrap

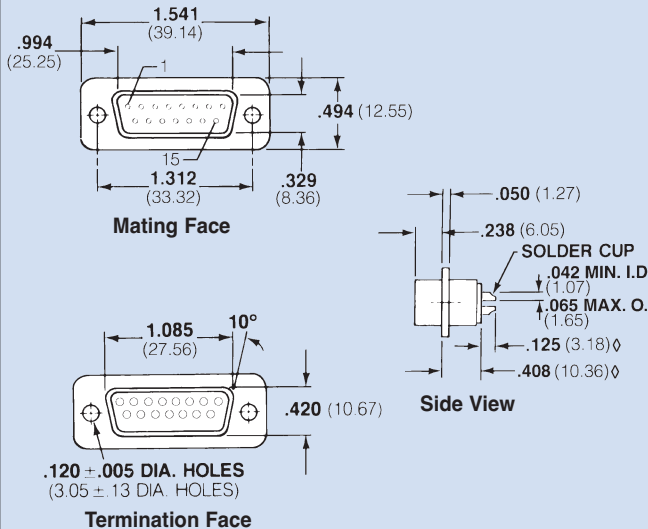
Spectrum Part Number <i>Select one</i>	EMI Filter				
	L .500	L .375	L .250	Filter Desig.**	Cap. Value
56-711 -006 -023 -018				A	310 pF Pi
56-711 -007 -024 -019				B	1000 pF C
56-711 -008 -025 -020				C	1000 pF Pi
56-711 -009 -026 -021				D	5000 pF C
56-711 -010 -027 -022				E	4000 pF Pi
56-711 -037 -034 -031				F	830 pF C
56-711 -038 -035 -032				J	100 pF Pi
56-711 -039 -036 -033				K	2500 pF Pi
56-711 -051 -050 -049				N	375 pF C



*Replace "56-" with "56F" to indicate RoHS compliant

Solder Cup Termination

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
* 56-711-011	A	310 pF Pi
56-711-012	B	1000 pF C
* 56-711-013	C	1000 pF Pi
56-711-014	D	5000 pF C
* 56-711-015	E	4000 pF Pi
* 56-711-040	F	830 pF C
56-711-041	J	100 pF Pi
56-711-042	K	2500 pF Pi
56-711-085	N	375 pF C
56-711-086	L	500 pF C



*Replace "56-" with "56F" to indicate RoHS compliant

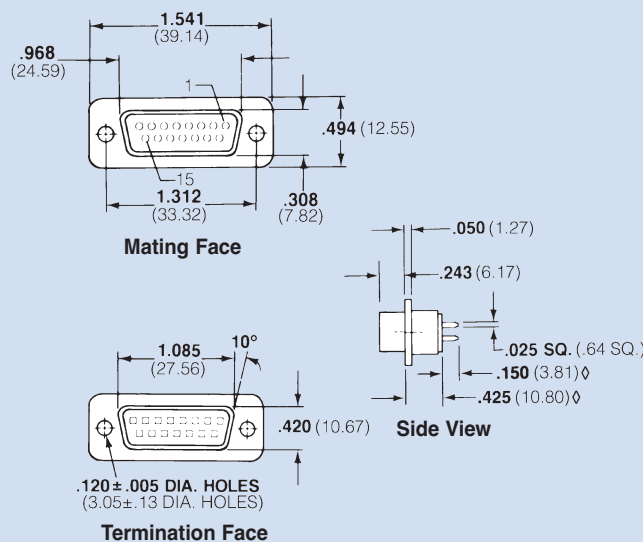
Dimensions in inches (mm)

15 Series 700 Shell Size Socket Contact



Printed Circuit Board Mount

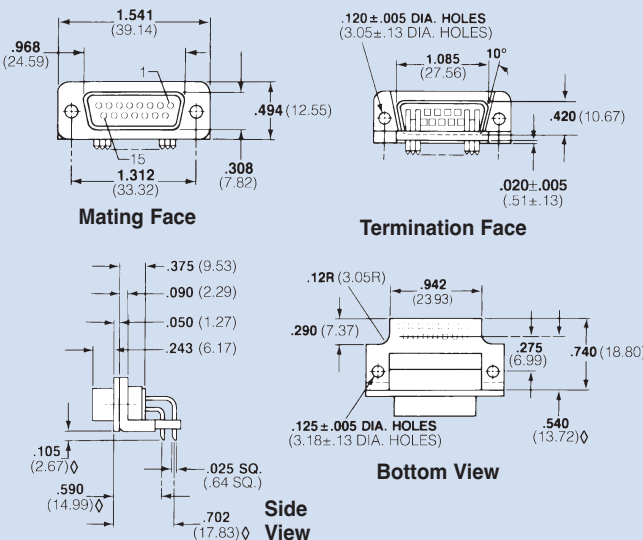
Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-713-001	A	310 pF Pi
56-713-002	B	1000 pF C
56-713-003	C	1000 pF Pi
56-713-004	D	5000 pF C
56-713-005	E	4000 pF Pi
56-713-021	F	830 pF C
56-713-022	J	100 pF Pi
56-713-023	K	2500 pF Pi
56-713-037	N	375 pF C
56-713-045	L	500 pF C



*Replace "56-" with "56F" to indicate RoHS compliant

Printed Circuit Board Right Angle Mount

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
* 56-714-001	A	310 pF Pi
56-714-002	B	1000 pF C
* 56-714-003	C	1000 pF Pi
56-714-004	D	5000 pF C
* 56-714-005	E	4000 pF Pi
* 56-714-006	F	830 pF C
56-714-007	J	100 pF Pi
56-714-008	K	2500 pF Pi
56-714-017	N	375 pF C
56-714-031	L	500 pF C



*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches (mm)

Standard Tolerance = ± 0.005 except where noted, $\diamond = \pm 0.015$

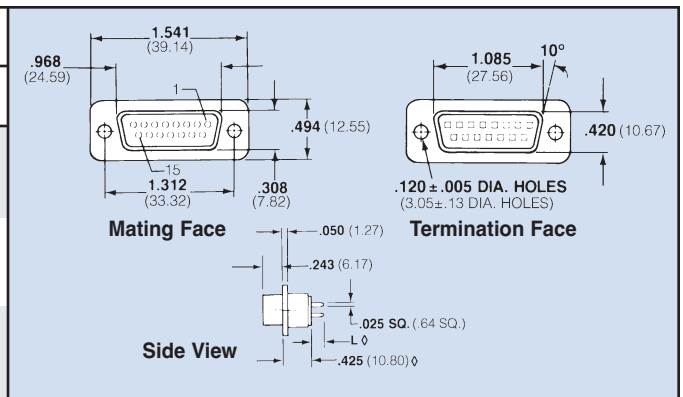
15 Series 700 Shell Size Pin/Socket Adapter



Solderless Wire Wrap

Spectrum Part Number <i>Select one</i>	EMI Filter				Filter Desig.**	Cap. Value
	L .500	L .375	L .250			
56-713 -006	-016	-011			A	310 pF Pi
56-713 -007	-017	-012			B	1000 pF C
56-713 -008	-018	-013			C	1000 pF Pi
56-713 -009	-019	-014			D	5000 pF C
56-713 -010	-020	-015			E	4000 pF Pi
56-713 -030	-027	-024			F	830 pF C
56-713 -031	-028	-025			J	100 pF Pi
56-713 -032	-029	-026			K	2500 pF Pi
56-713 -040	-039	-038			N	375 pF C

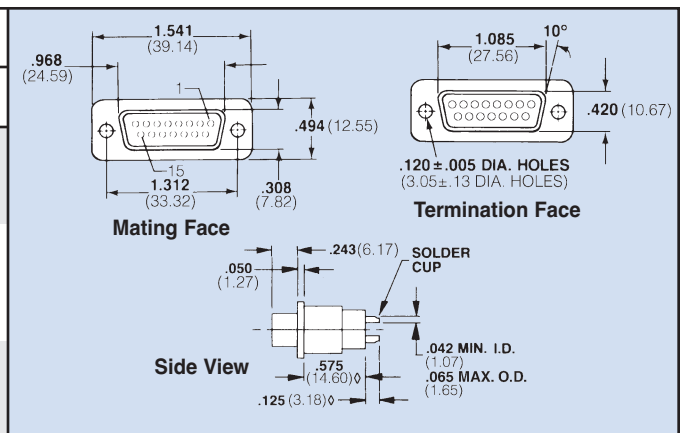
*Replace "56-" with "56F" to indicate RoHS compliant



Solder Cup Termination

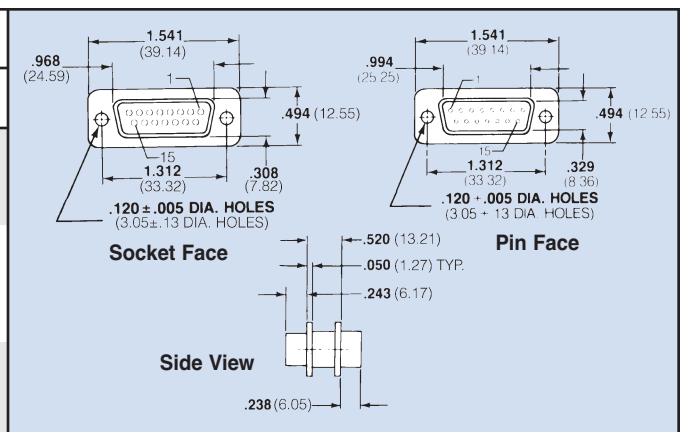
Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
* 56-716-001	A	310 pF Pi
56-716-002	B	1000 pF C
* 56-716-003	C	1000 pF Pi
56-716-004	D	5000 pF C
* 56-716-005	E	4000 pF Pi
56-716-006	F	830 pF C
56-716-007	J	100 pF Pi
* 56-716-008	K	2500 pF Pi
56-716-009	N	375 pF C
56-716-013	L	500 pF C

*Replace "56-" with "56F" to indicate RoHS compliant



Pin/Socket Adapter

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
* 56-715-001	A	310 pF Pi
56-715-002	B	1000 pF C
* 56-715-003 €	C	1000 pF Pi
56-715-004	D	5000 pF C
* 56-715-005 €	E	4000 pF Pi
56-715-007	F	830 pF C
56-715-008	J	100 pF Pi
56-715-009	K	2500 pF Pi
56-715-015	N	375 pF C
56-715-040	L	500 pF C



*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches (mm)

Standard Tolerance = ±.005 except where noted, φ = ±.015



Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-721-001	A	310 pF Pi
56-721-002	B	1000 pF C
56-721-003	C	1000 pF Pi
56-721-004	D	5000 pF C
56-721-005	E	4000 pF Pi
56-721-033	F	830 pF C
56-721-034	J	100 pF Pi
56-721-035	K	2500 pF Pi
56-721-063	N	375 pF C
56-721-111	L	500 pF C

Printed Circuit Board Right Angle Mount

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
* 56-722-001	A	310 pF Pi
56-722-002	B	1000 pF C
* 56-722-003	C	1000 pF Pi
56-722-004	D	5000 pF C
* 56-722-005	E	4000 pF Pi
* 56-722-008	F	830 pF C
56-722-009	J	100 pF Pi
56-722-010	K	2500 pF Pi
56-722-027	N	375 pF C
56-722-060	L	500 pF C

Top View: Overall dimensions include 2.088 (53.04) total length, 1.534 (38.96) length to the first hole, .494 (12.55) height, 1.852 (47.04) length to the last hole, and .329 (8.36) distance from the last hole to the end. A 25 mil wide feature is also indicated.

Termination Face: Shows 120 ±.005 DIA. HOLES (3.05 ±.13 DIA. HOLES) with a 10° chamfer. The distance between holes is 1.625 (41.28). The termination face width is .420 (10.67). The hole diameter is .020 ±.005 (.51 ±.13).

Mating Face: Shows the mating interface with dimensions .358 (9.09), .090 (2.29), .050 (1.27), and .238 (6.05).

Bottom View: Shows the bottom of the filter with 125 ±.005 DIA. HOLES (3.18 ±.13 DIA. HOLES). Dimensions include .125R (3.05R) radius, .290 (7.35) distance to the first hole, .275 (6.99) distance between holes, .740 (18.80) total length, and .540 (13.72) distance from the last hole to the end.

Side View: Shows the side profile with dimensions .105 (2.67) height, .590 (14.99) distance to the first hole, .025 SQ. (.64 SQ.) hole size, and .702 (17.83) distance from the last hole to the end.

Dimensions in inches (*mm*)

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API TECHNOLOGIES' SPECTRUM CONTROL GmbH • Hansastrasse 6 • 91126 Schwabach, Germany • Phone: (49)-9122-795-0 • Fax: (49)-9122-795-58

25 Series 700 Shell Size Pin Contact



Solderless Wire Wrap

Spectrum Part Number <i>Select one</i>	EMI Filter				
	L .500	L .375	L .250	Filter Design.**	Cap. Value
56-721 -006 -028 -024				A	310 pF Pi
56-721 -007 -029 -025				B	1000 pF C
56-721 -008 -030 -026				C	1000 pF Pi
56-721 -009 -031 -022				D	5000 pF C
56-721 -010 -032 -027				E	4000 pF Pi
56-721 -042 -039 -036				F	830 pF C
56-721 -043 -040 -037				J	100 pF Pi
56-721 -044 -041 -038				K	2500 pF Pi
56-721 -066 -065 -064				N	375 pF C

*Replace "56-" with "56F" to indicate RoHS compliant

Solder Cup Termination

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
* 56-721-011	A	310 pF Pi
* 56-721-012	B	1000 pF C
* 56-721-013	C	1000 pF Pi
56-721-014	D	5000 pF C
* 56-721-015	E	4000 pF Pi
* 56-721-045	F	830 pF C
56-721-046	J	100 pF Pi
56-721-047	K	2500 pF Pi
56-721-070	N	375 pF C
56-721-112	L	500 pF C

*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches (mm)

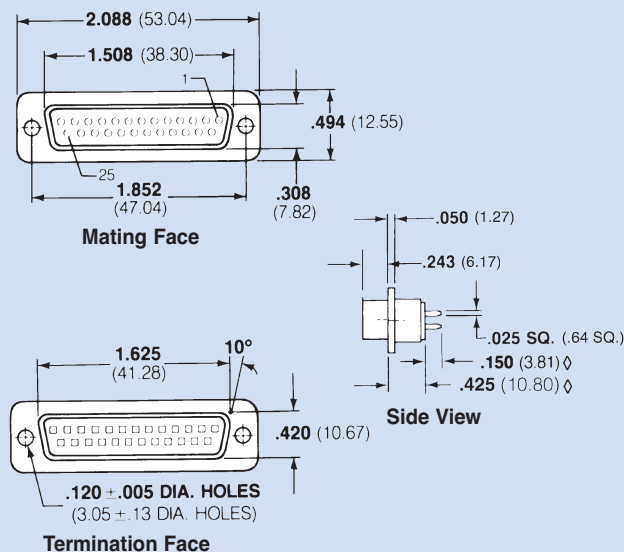
Standard Tolerance = ± 0.005 except where noted, $\diamond = \pm 0.015$

25 Series 700 Shell Size Socket Contact



Printed Circuit Board Mount

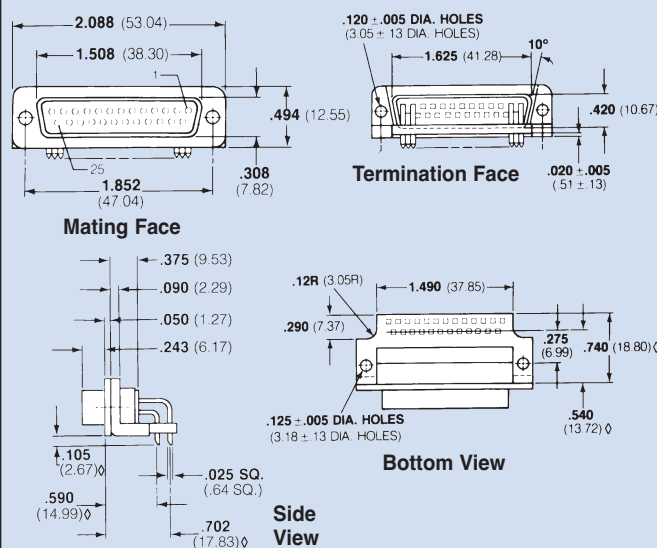
Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-723-001	A	310 pF Pi
56-723-002	B	1000 pF C
56-723-003	C	1000 pF Pi
56-723-004	D	5000 pF C
56-723-005	E	4000 pF Pi
56-723-023	F	830 pF C
56-723-024	J	100 pF Pi
56-723-025	K	2500 pF Pi
56-723-045	N	375 pF C
56-723-069	L	500 pF C



*Replace "56-" with "56F" to indicate RoHS compliant

Printed Circuit Board Right Angle Mount

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
* 56-724-001	A	310 pF Pi
56-724-002	B	1000 pF C
* 56-724-003	C	1000 pF Pi
56-724-004	D	5000 pF C
* 56-724-005	E	4000 pF Pi
* 56-724-008	F	830 pF C
56-724-009	J	100 pF Pi
56-724-010	K	2500 pF Pi
56-724-021	N	375 pF C
56-724-046	L	500 pF C



*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches (mm)

Standard Tolerance = ± 0.005 except where noted, $\diamond = \pm 0.015$

25 Series 700 Shell Size Pin/Socket Adapter



Solderless Wire Wrap

Spectrum Part Number <i>Select one</i>				EMI Filter	
	L .500	L .375	L .250	Filter Desig.**	Cap. Value
* 56-723	-006	-017	* -012	A	310 pF Pi
56-723	-007	-018	-013	B	1000 pF C
* 56-723	-008	-019	* -014	C	1000 pF Pi
56-723	-009	-020	-015	D	5000 pF C
* 56-723	-010	-021	* -016	E	4000 pF Pi
* 56-723	-032	-029	* -026	F	830 pF C
56-723	-033	-030	-027	J	100 pF Pi
56-723	-034	-031	-028	K	2500 pF Pi
56-723	-048	-047	-046	N	375 pF C

*Replace "56-" with "56F" to indicate RoHS compliant

Solder Cup Termination

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
* 56-726-001	A	310 pF Pi
56-726-002	B	1000 pF C
* 56-726-003	C	1000 pF Pi
56-726-004	D	5000 pF C
* 56-726-005	E	4000 pF Pi
56-726-006	F	830 pF C
56-726-007	J	100 pF Pi
* 56-726-008	K	2500 pF Pi
56-726-009	N	375 pF C
56-726-021	L	500 pF C

*Replace "56-" with "56F" to indicate RoHS compliant

Pin/Socket Adapter

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
* 56-725-001	A	310 pF Pi
56-725-002	B	1000 pF C
* 56-725-003 €	C	1000 pF Pi
56-725-004	D	5000 pF C
* 56-725-005 €	E	4000 pF Pi
* 56-725-019	F	830 pF C
56-725-020	J	100 pF Pi
* 56-725-021	K	2500 pF Pi
56-725-064	N	375 pF C
56-725-073	L	500 pF C

*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches (mm)

Standard Tolerance = ±.005 except where noted, $\phi = \pm .015$

API TECHNOLOGIES • 8061 Avonia Rd. • Fairview, PA 16415 • Ph: 814-474-1571 • Fax: 814-474-3110 • eis.apitech.com

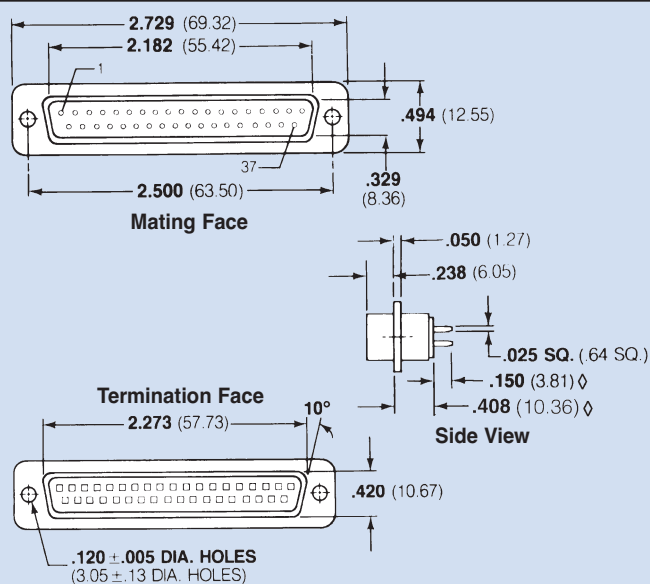
API TECHNOLOGIES' SPECTRUM CONTROL GmbH • Hansastrasse 6 • 91126 Schwabach, Germany • Phone: (49)-9122-795-0 • Fax: (49)-9122-795-58

37 Series 700 Shell Size Pin Contact



Printed Circuit Board Mount

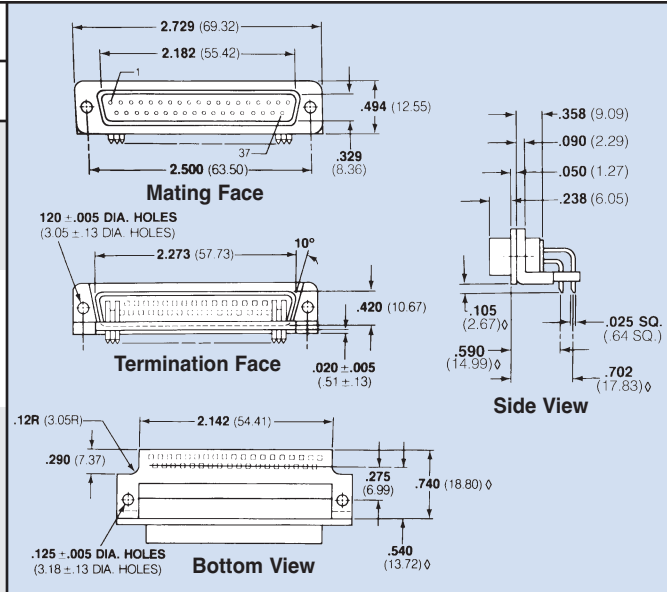
Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-731-001	A	310 pF Pi
56-731-002	B	1000 pF C
56-731-003	C	1000 pF Pi
56-731-004	D	5000 pF C
56-731-005	E	4000 pF Pi
56-731-028	F	830 pF C
56-731-029	J	100 pF Pi
56-731-030	K	2500 pF Pi
56-731-048	N	375 pF C
56-731-076	L	500 pF C



*Replace "56-" with "56F" to indicate RoHS compliant

Printed Circuit Board Right Angle Mount

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-732-001	A	310 pF Pi
56-732-002	B	1000 pF C
* 56-732-003	C	1000 pF Pi
56-732-004	D	5000 pF C
* 56-732-005	E	4000 pF Pi
56-732-006	F	830 pF C
56-732-007	J	100 pF Pi
56-732-008	K	2500 pF Pi
56-732-009	N	375 pF C
56-732-023	L	500 pF C



*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches (mm)

Standard Tolerance = $\pm .005$ except where noted, $\phi = \pm .015$

37 Series 700 Shell Size Pin Contact



Solderless Wire Wrap

Spectrum Part Number <i>Select one</i>	EMI Filter				
	L .500	L .375	L .250	Filter Design.**	Cap. Value
56-731 -006 -023 -018				A	310 pF Pi
56-731 -007 -024 -019				B	1000 pF C
56-731 -008 -025 -020				C	1000 pF Pi
56-731 -009 -026 -021				D	5000 pF C
56-731 -010 -027 -022				E	4000 pF Pi
56-731 -037 -034 -031				F	830 pF C
56-731 -038 -035 -032				J	100 pF Pi
56-731 -039 -036 -033				K	2500 pF Pi
56-731 -051 -050 -049				N	375 pF C

*Replace "56-" with "56F" to indicate RoHS compliant

Solder Cup Termination

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
* 56-731-011	A	310 pF Pi
56-731-012	B	1000 pF C
* 56-731-013	C	1000 pF Pi
56-731-014	D	5000 pF C
* 56-731-015	E	4000 pF Pi
* 56-731-040	F	830 pF C
56-731-041	J	100 pF Pi
56-731-042	K	2500 pF Pi
56-731-060	N	375 pF C
56-731-077	L	500 pF C

*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches (mm)

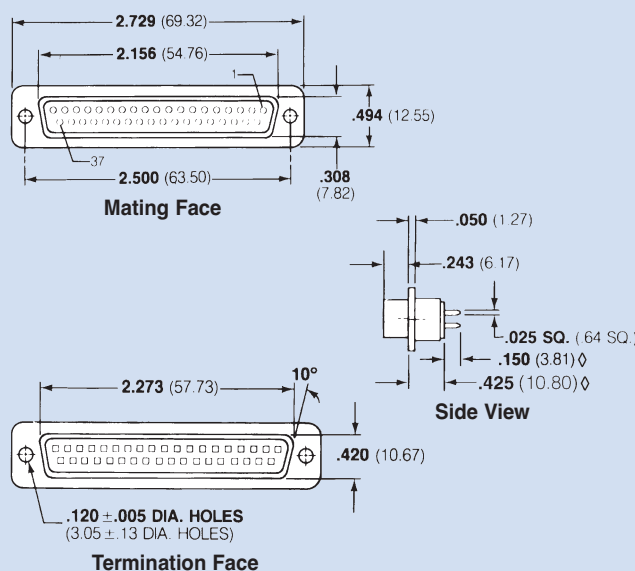
Standard Tolerance = ± 0.005 except where noted, $\diamond = \pm 0.015$

37 Series 700 Shell Size Socket Contact



Printed Circuit Board Mount

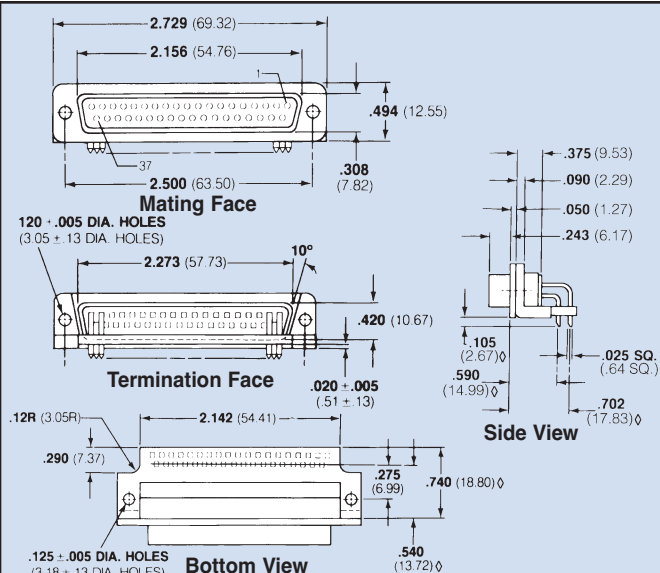
Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-733-001	A	310 pF Pi
56-733-002	B	1000 pF C
56-733-003	C	1000 pF Pi
56-733-004	D	5000 pF C
56-733-005	E	4000 pF Pi
56-733-021	F	830 pF C
56-733-022	J	100 pF Pi
56-733-023	K	2500 pF Pi
56-733-035	N	375 pF C
56-733-046	L	500 pF C



*Replace "56-" with "56F" to indicate RoHS compliant

Printed Circuit Board Right Angle Mount

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-734-001	A	310 pF Pi
56-734-002	B	1000 pF C
56-734-003	C	1000 pF Pi
56-734-004	D	5000 pF C
56-734-005	E	4000 pF Pi
56-734-006	F	830 pF C
56-734-007	J	100 pF Pi
56-734-008	K	2500 pF Pi
56-734-012	N	375 pF C
56-734-021	L	500 pF C

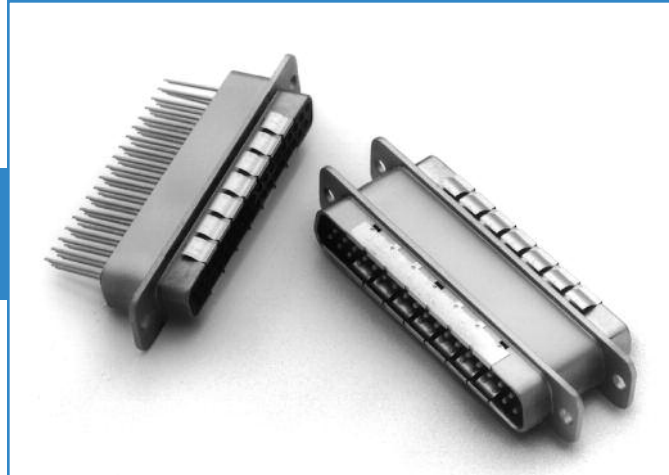


*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches (mm)

Standard Tolerance = ± 0.005 except where noted, $\diamond = \pm 0.015$

37 Series 700 Shell Size Pin/Socket Adapter



Solderless Wire Wrap

Spectrum Part Number <i>Select one</i>	EMI Filter				Filter Desig.**	Cap. Value		
	L .500	L .375	L .250					
* 56-733 -006	-016	* -011			A	310 pF Pi		
56-733 -007	-017	-012			B	1000 pF C		
56-733 -008	-018	-013			C	1000 pF Pi		
56-733 -009	-019	-014			D	5000 pF C		
56-733 -010	-020	-015			E	4000 pF Pi		
56-733 -030	-027	-024			F	830 pF C		
56-733 -031	-028	-025			J	100 pF Pi		
56-733 -032	-029	-026			K	2500 pF Pi		
56-733 -038	-037	-036			N	375 pF C		

Mating Face

Termination Face

Side View

*Replace "56-" with "56F" to indicate RoHS compliant

Solder Cup Termination

Spectrum Part Number	EMI Filter			
	Filter Designation**	Cap. Value		
* 56-736-001	A	310 pF Pi		
56-736-002	B	1000 pF C		
* 56-736-003	C	1000 pF Pi		
56-736-004	D	5000 pF C		
* 56-736-005	E	4000 pF Pi		
56-736-006	F	830 pF C		
56-736-007	J	100 pF Pi		
* 56-736-008	K	2500 pF Pi		
56-736-009	N	375 pF C		
56-736-015	L	500 pF C		

Mating Face

Termination Face

Side View

*Replace "56-" with "56F" to indicate RoHS compliant

Pin/Socket Adapter

Spectrum Part Number	EMI Filter			
	Filter Designation**	Cap. Value		
* 56-735-001	A	310 pF Pi		
56-735-002	B	1000 pF C		
* 56-735-003 €	C	1000 pF Pi		
56-735-004	D	5000 pF C		
* 56-735-005 €	E	4000 pF Pi		
* 56-735-008	F	830 pF C		
56-735-009	J	100 pF Pi		
56-735-010	K	2500 pF Pi		
56-735-025	N	375 pF C		
56-735-034	L	500 pF C		

Socket Face

Pin Face

Side View

*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches (mm)

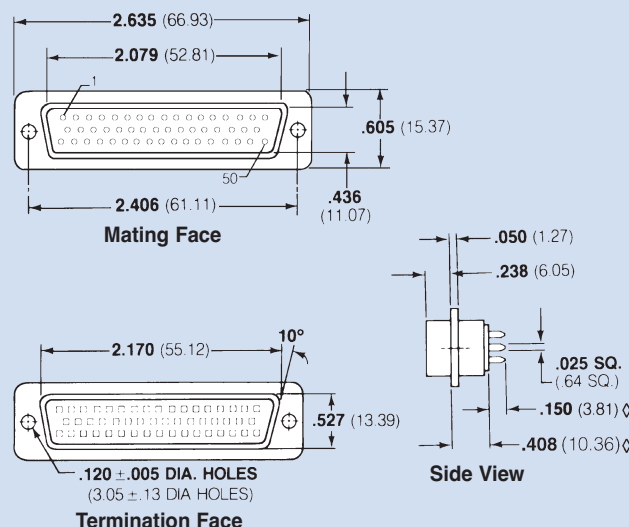
Standard Tolerance = ± 0.005 except where noted, $\phi = \pm 0.015$

50 Series 700 Shell Size Pin Contact



Printed Circuit Board Mount

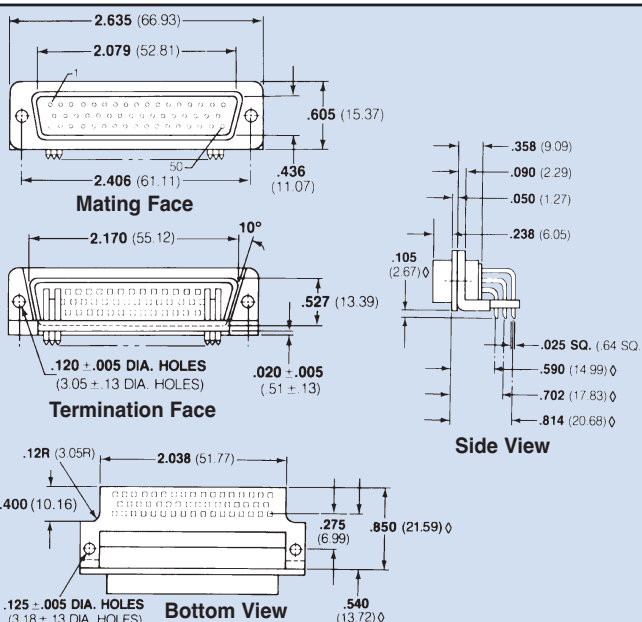
Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-741-001	A	310 pF Pi
56-741-002	B	1000 pF C
56-741-003	C	1000 pF Pi
56-741-004	D	5000 pF C
56-741-005	E	4000 pF Pi
56-741-027	F	830 pF C
56-741-028	J	100 pF Pi
56-741-029	K	2500 pF Pi
56-741-042	N	375 pF C
56-741-066	L	500 pF C



*Replace "56-" with "56F" to indicate RoHS compliant

Printed Circuit Board Right Angle Mount

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-742-001	A	310 pF Pi
56-742-002	B	1000 pF C
56-742-003	C	1000 pF Pi
56-742-004	D	5000 pF C
56-742-005	E	4000 pF Pi
56-742-006	F	830 pF C
56-742-007	J	100 pF Pi
56-742-008	K	2500 pF Pi
56-742-009	N	375 pF C
56-742-022	L	500 pF C



*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches (mm)

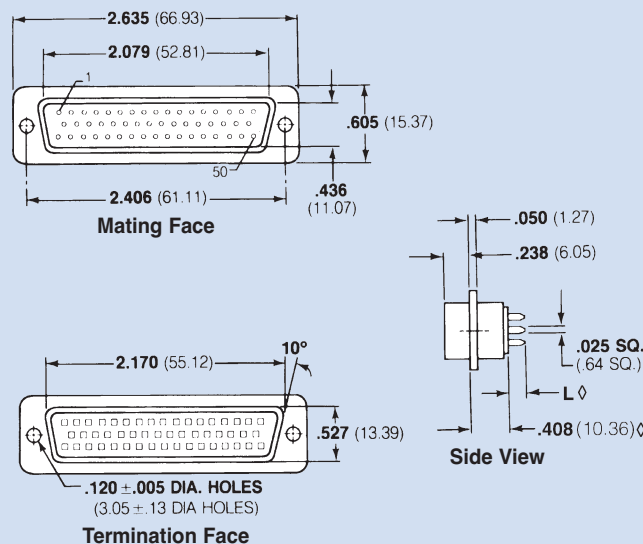
Standard Tolerance = ± 0.005 except where noted, $\phi = \pm 0.015$

50 Series 700 Shell Size Pin Contact



Solderless Wire Wrap

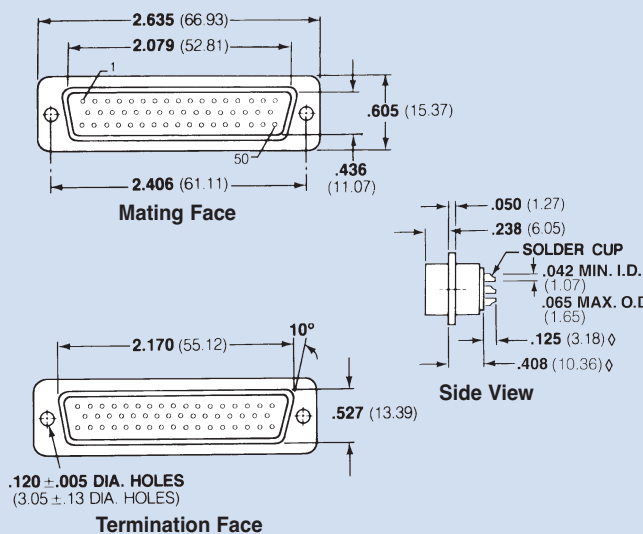
Spectrum Part Number <i>Select one</i>	EMI Filter				
	L .500	L .375	L .250	Filter Desig.**	Cap. Value
56-741 -006 -022 -017				A	310 pF Pi
56-741 -007 -023 -018				B	1000 pF C
56-741 -008 -024 -019				C	1000 pF Pi
56-741 -009 -025 -020				D	5000 pF C
56-741 -010 -026 -021				E	4000 pF Pi
56-741 -036 -033 -030				F	830 pF C
56-741 -037 -034 -031				J	100 pF Pi
56-741 -038 -035 -032				K	2500 pF Pi
56-741 -045 -044 -043				N	375 pF C



*Replace "56-" with "56F" to indicate RoHS compliant

Solder Cup Termination

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
* 56-741-011	A	310 pF Pi
* 56-741-012	B	1000 pF C
* 56-741-013	C	1000 pF Pi
* 56-741-014	D	5000 pF C
* 56-741-015	E	4000 pF Pi
56-741-039	F	830 pF C
56-741-040	J	100 pF Pi
56-741-041	K	2500 pF Pi
56-741-063	N	375 pF C
56-741-067	L	500 pF C



*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches (mm)

Standard Tolerance = ± 0.005 except where noted, $\diamond = \pm 0.015$

50 Series 700 Shell Size Socket Contact



Printed Circuit Board Mount

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-743-001	A	310 pF Pi
56-743-002	B	1000 pF C
56-743-003	C	1000 pF Pi
56-743-004	D	5000 pF C
56-743-005	E	4000 pF Pi
56-743-021	F	830 pF C
56-743-022	J	100 pF Pi
56-743-023	K	2500 pF Pi
56-743-033	N	375 pF C
56-743-043	L	500 pF C

*Replace "56-" with "56F" to indicate RoHS compliant

Printed Circuit Board Right Angle Mount

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-744-001	A	310 pF Pi
56-744-002	B	1000 pF C
56-744-003	C	1000 pF Pi
56-744-004	D	5000 pF C
56-744-005	E	4000 pF Pi
56-744-006	F	830 pF C
56-744-007	J	100 pF Pi
56-744-008	K	2500 pF Pi
56-744-009	N	375 pF C
56-744-012	L	500 pF C

*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches (mm)

Standard Tolerance = $\pm .005$ except where noted, $\diamond = \pm .015$

50 Series 700 Shell Size Socket Contact & Pin/Socket Adapter



Solderless Wire Wrap

Spectrum Part Number <i>Select one</i>				EMI Filter	
	L .500	L .375	L .250	Filter Desig.**	Cap. Value
56-743	-006	-016	-011	A	310 pF Pi
56-743	-007	-017	-012	B	1000 pF C
56-743	-008	-018	-013	C	1000 pF Pi
56-743	-009	-019	-014	D	5000 pF C
56-743	-010	-020	-015	E	4000 pF Pi
56-743	-030	-027	-024	F	830 pF C
56-743	-031	-028	-025	J	100 pF Pi
56-743	-032	-029	-026	K	2500 pF Pi
56-743	-036	-035	-034	N	375 pF C

*Replace "56-" with "56F" to indicate RoHS compliant

Solder Cup Termination

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-746-001	A	310 pF Pi
56-746-002	B	1000 pF C
56-746-003	C	1000 pF Pi
56-746-004	D	5000 pF C
56-746-005	E	4000 pF Pi
56-746-006	F	830 pF C
56-746-007	J	100 pF Pi
56-746-008	K	2500 pF Pi
56-746-009	N	375 pF C
56-746-018	L	500 pF C

*Replace "56-" with "56F" to indicate RoHS compliant

Pin/Socket Adapter

Spectrum Part Number	EMI Filter	
	Filter Designation**	Cap. Value
* 56-745-001	A	310 pF Pi
56-745-002	B	1000 pF C
* 56-745-003	C	1000 pF Pi
56-745-004	D	5000 pF C
* 56-745-005	E	4000 pF Pi
56-745-006	F	830 pF C
56-745-007	J	100 pF Pi
56-745-008	K	2500 pF Pi
56-745-019	N	375 pF C
56-745-027	L	500 pF C

*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches (mm)

Standard Tolerance = ±.005 except where noted, $\phi = \pm .015$