

Series 700 High Performance EMI Filtered D-Sub Connectors

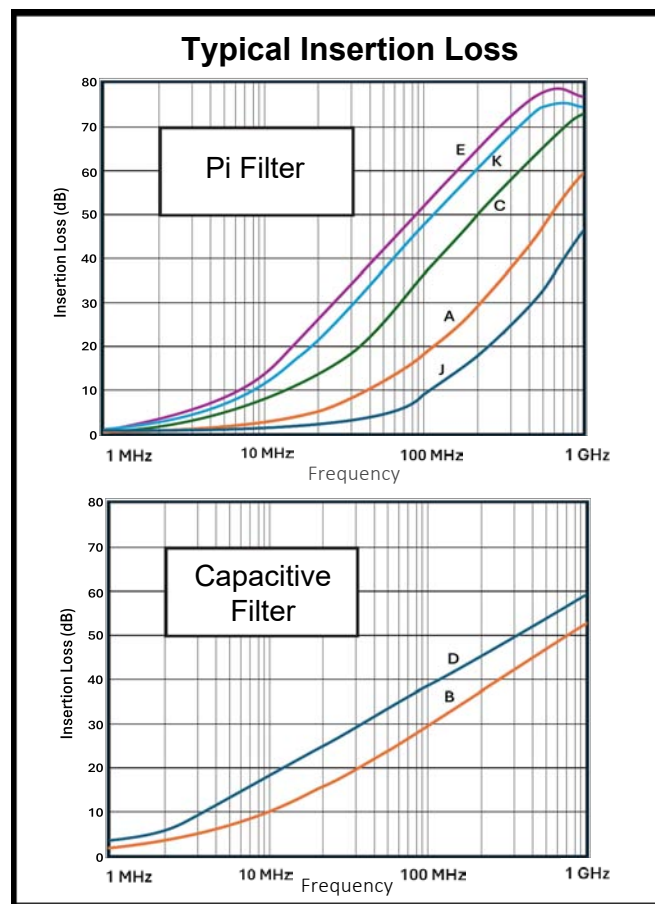
Filter Selection

Spectrum Control's Series 700 D-Sub 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 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.



Electrical Specifications: High Performance Connectors

Filter Designations	Filter Circuits	Capacitance		3 dB Cut-of 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	+25%	15.9	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
B	C	1000 pF	+100 -0%	3.2	600V	200V	—	4	9	16	22	28	36	42
D		5000pF	+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.

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
Terminations	See pg. 23: Connector Options 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 insertion loss graphs on page 1 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 feedthrough capacitor or Pi. Pi is generally considered better due to its superior high frequency performance and steeper curve. The feedthrough capacitor is lower cost.
- Select capacitance value.
- Note the Spectrum Control letter designation for the filter chosen from the table on page 1.

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 23 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, contact Spectrum Control for part number assignment.

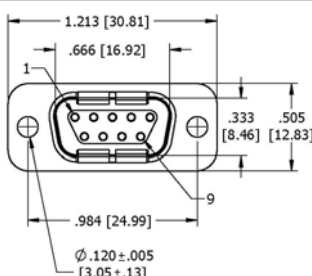
Series 700 Pin Contact

9 Shell Size

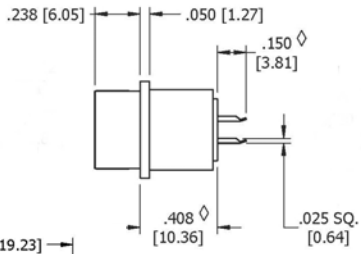


Printed Circuit Board Mount

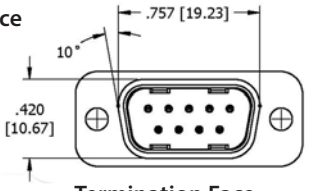
Spectrum Control Part Number	EMI Filter	
	Filter Designation**	Cap Value
56-701-001	A	310 pF Pi
56-701-002	B	1000 pF C
56-701-003	C	1000 pF Pi
56-701-004	D	5000 pF C
56-701-005	E	4000 pF Pi
56-701-029	J	100 pF Pi
56-701-030	K	2500 pF Pi



Mating Face



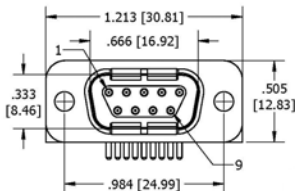
Side View



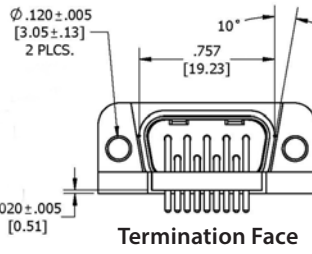
Termination Face

Printed Circuit Board Right Angle Mount

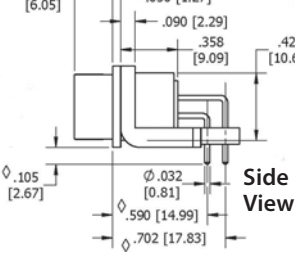
Spectrum Control Part Number	EMI Filter	
	Filter Designation**	Cap Value
56-702-001	A	310 pF Pi
56-702-002	B	1000 pF C
56-702-003	C	1000 pF Pi
56-702-004	D	5000 pF C
56-702-005	E	4000 pF Pi
56-702-008	J	100 pF Pi
56-702-009	K	2500 pF Pi



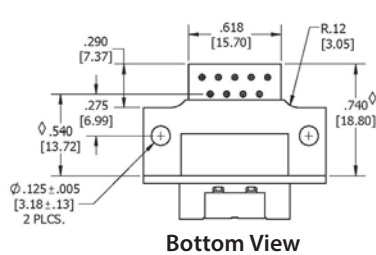
Mating Face



Termination Face



Side View



Bottom View

*Replace "56-" with "56F" to indicate RoHS compliant Dimensions in inches [mm]

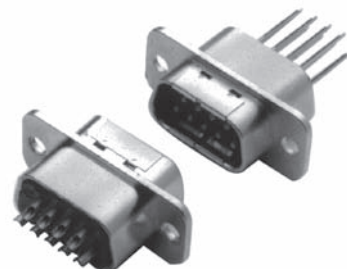
**See page 1 for filter performance

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

Dimensions in inches [mm]

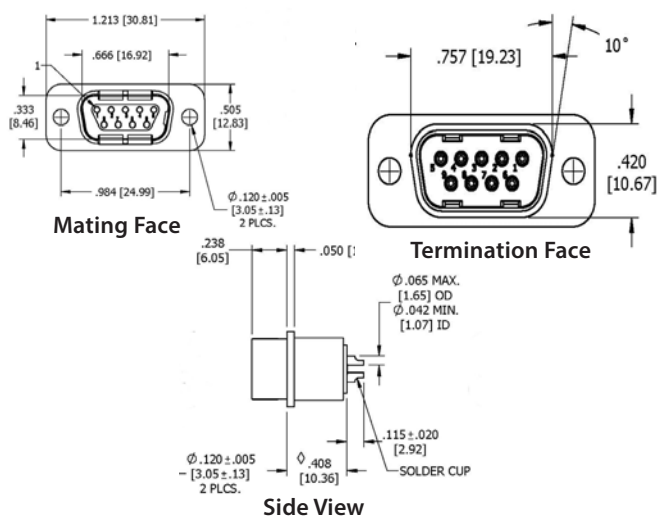
Series 700 Pin Contact

9 Shell Size



Solder Cup Termination

Spectrum Control 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
56-701-041	J	100 pF Pi
56-701-042	K	2500 pF Pi



*Replace "56-" with "56F" to indicate RoHS compliant Dimensions in inches [mm]

**See page 1 for filter performance

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

Dimensions in inches [mm]

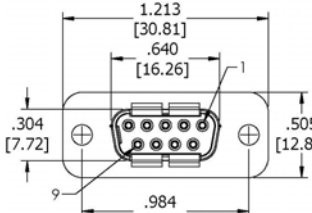
Series 700 Socket Contact

9 Shell Size

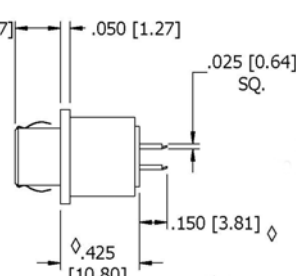


Printed Circuit Board Mount

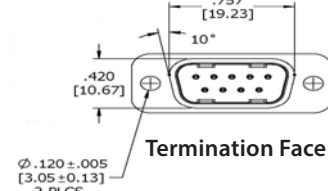
Spectrum Control Part Number	EMI Filter	
	Filter Designation**	Cap Value
56-703-001	A	310 pF Pi
56-703-002	B	1000 pF C
56-703-003	C	1000 pF Pi
56-703-004	D	5000 pF C
56-703-005	E	4000 pF Pi
56-703-023	J	100 pF Pi
56-703-024	K	2500 pF Pi



Mating Face



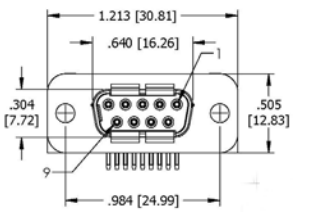
Side View



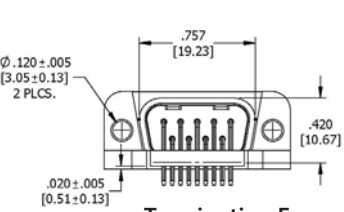
Termination Face

Printed Circuit Board Right Angle Mount

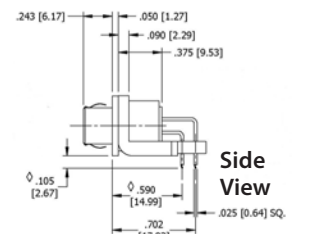
Spectrum Control Part Number	EMI Filter	
	Filter Designation**	Cap Value
56-704-001	A	310 pF Pi
56-704-002	B	1000 pF C
56-704-003	C	1000 pF Pi
56-704-004	D	5000 pF C
56-704-005	E	4000 pF Pi
56-704-008	J	100 pF Pi
56-704-009	K	2500 pF Pi



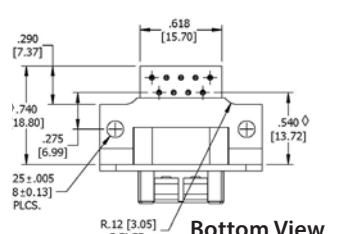
Mating Face



Termination Face



Side View



Bottom View

*Replace "56-" with "56F" to indicate RoHS compliant Dimensions in inches [mm]

**See page 1 for filter performance

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

Dimensions in inches [mm]

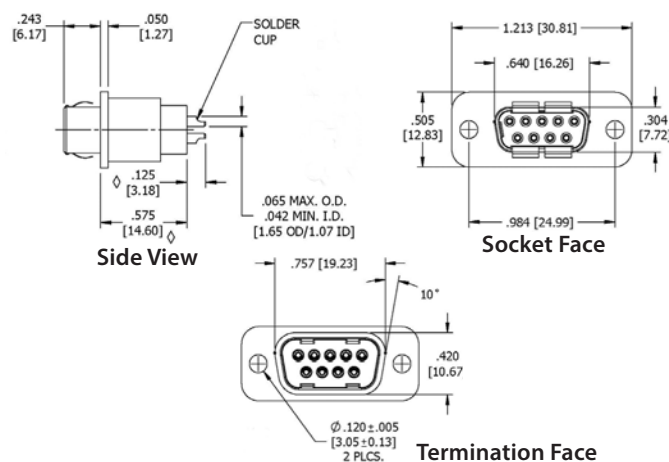
Series 700 Socket Contact & Pin/Socket Adapter

9 Shell Size



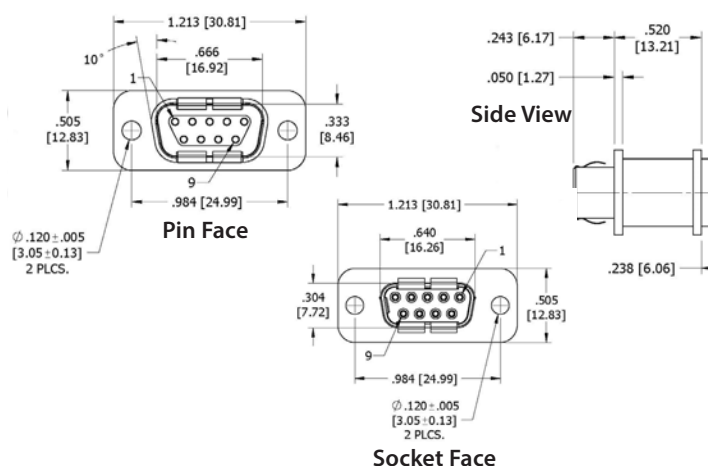
Solder Cup Termination

Spectrum Control 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
56-706-007	J	100 pF Pi
56-706-008	K	2500 pF Pi



Pin/Socket Adapter

Spectrum Control 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
56-705-009	J	100 pF Pi
56-705-010	K	100 pF Pi



*Replace "56-" with "56F" to indicate RoHS compliant Dimensions in inches [mm]

**See page 1 for filter performance

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

Dimensions in inches [mm]

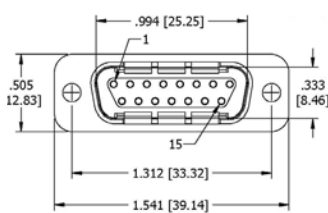
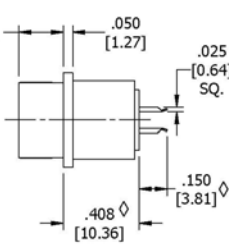
Series 700 Pin Contact

15 Shell Size



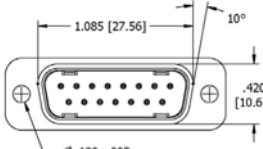
Printed Circuit Board Mount

Spectrum Control 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
56-711-029	J	100 pF Pi
56-711-030	K	2500 pF Pi

Mating Face

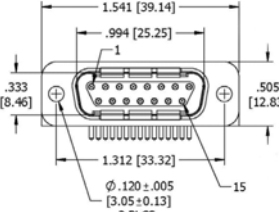
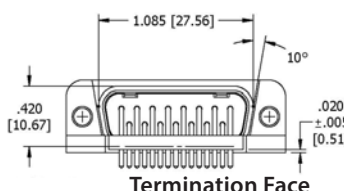
Side View



Termination Face

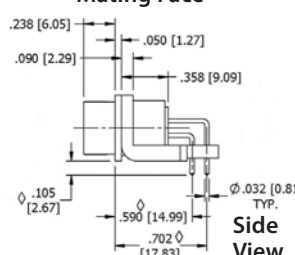
Printed Circuit Board Right Angle Mount

Spectrum Control 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
56-712-008	J	100 pF Pi
56-712-009	K	2500 pF Pi

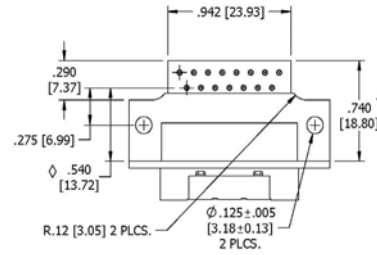



Mating Face

Termination Face



Side View



Bottom View

*Replace "56-" with "56F" to indicate RoHS compliant Dimensions in inches [mm]

**See page 1 for filter performance

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

Dimensions in inches [mm]

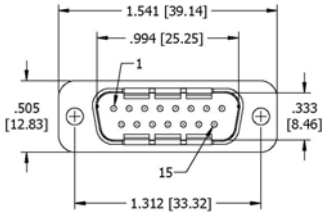
Series 700 Pin Contact

15 Shell Size

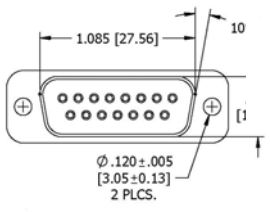
Solder Cup Termination



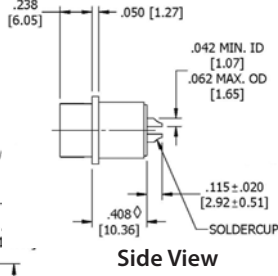
Spectrum Control Part Number	EMI Filter	
	Filter Designation**	Cap Value
56-711-011	A	310 pF Pi
56-711-012	B	1000 pF C
56-711-013	C	1000 pF Pi
56-711-014	D	5000 pF C
56-711-015	E	4000 pF Pi
56-711-041	J	100 pF Pi
56-711-042	K	2500 pF Pi



Mating Face



Termination Face



Side View

*Replace "56-" with "56F" to indicate RoHS compliant Dimensions in inches [mm]

**See page 1 for filter performance

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

Dimensions in inches [mm]

Series 700 Socket Contact

15 Shell Size



Printed Circuit Board Mount

Spectrum Control 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
56-713-022	J	100 pF Pi
56-713-023	K	2500 pF Pi

Printed Circuit Board Right Angle Mount

Spectrum Control 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
56-714-007	J	100 pF Pi
56-714-008	K	2500 pF Pi

*Replace "56-" with "56F" to indicate RoHS compliant Dimensions in inches [mm]

**See page 1 for filter performance

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

Dimensions in inches [mm]

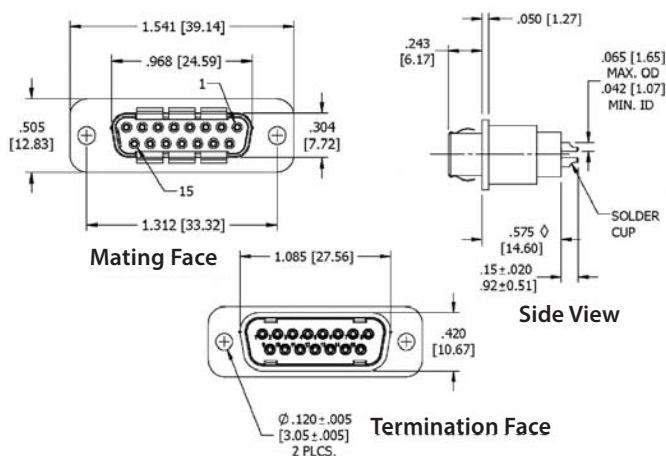
Series 700 Socket Contact & Pin/Socket Adapter

15 Shell Size



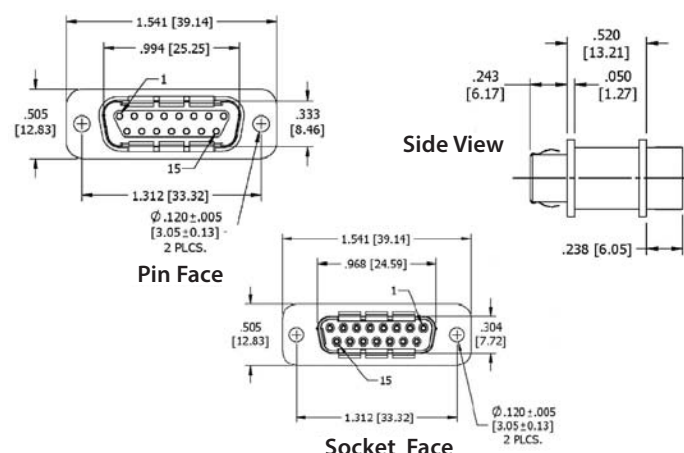
Solder Cup Termination

Spectrum Control 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
56-716-007	J	100 pF Pi
56-716-008	K	2500 pF Pi



Pin/Socket Adapter

Spectrum Control 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
56-715-008	J	100 pF Pi
56-715-009	K	2500 pF Pi



*Replace "56-" with "56F" to indicate RoHS compliant Dimensions in inches [mm]

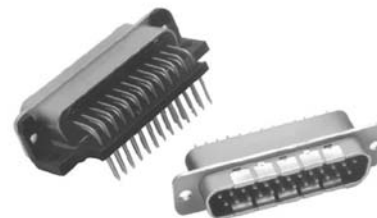
**See page 1 for filter performance

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

Dimensions in inches [mm]

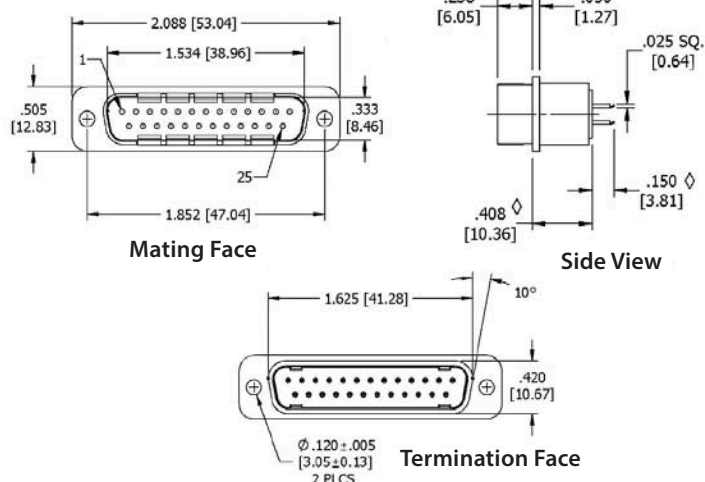
Series 700 Pin Contact

25 Shell Size



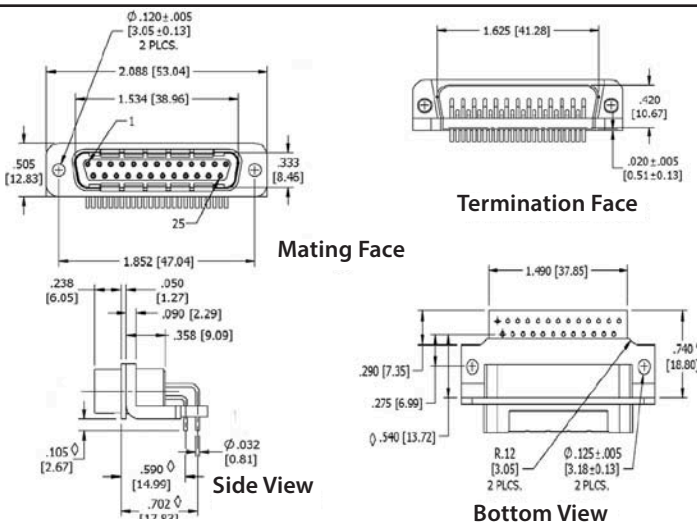
Printed Circuit Board Mount

Spectrum Control 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
56-721-034	J	100 pF Pi
56-721-035	K	2500 pF Pi



Printed Circuit Board Right Angle Mount

Spectrum Control 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
56-722-009	J	100 pF Pi
56-722-010	K	2500 pF Pi



*Replace "56-" with "56F" to indicate RoHS compliant Dimensions in inches [mm]

**See page 1 for filter performance

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

Dimensions in inches [mm]

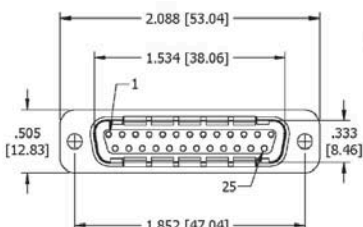
Series 700 Pin Contact

25 Shell Size

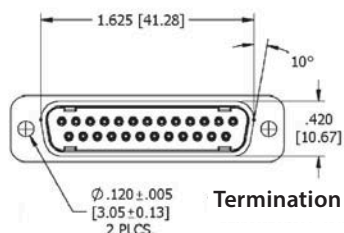


Solder Cup Termination

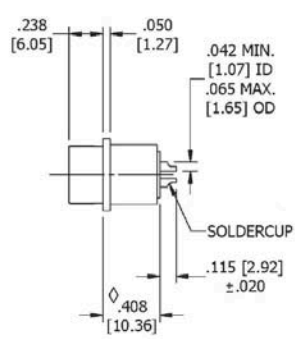
Spectrum Control Part Number	EMI Filter	
	Filter Designation**	Cap Value
56-721-011	A	310 pF Pi
56-721-012	B	1000 pF C
56-721-013	C	1000 pF Pi
56-721-014	D	5000 pF C
56-721-015	E	4000 pF Pi
56-721-046	J	100 pF Pi
56-721-047	K	2500 pF Pi



Mating Face



Termination Face



Side View

*Replace "56-" with "56F" to indicate RoHS compliant Dimensions in inches [mm]

**See page 1 for filter performance

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

Dimensions in inches [mm]

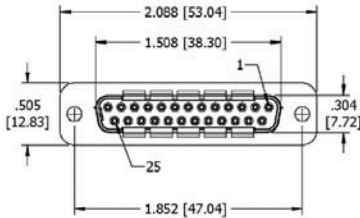
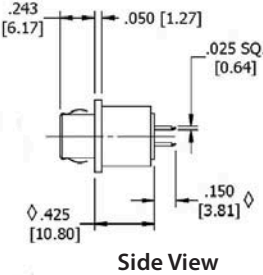
Series 700 Socket Contact

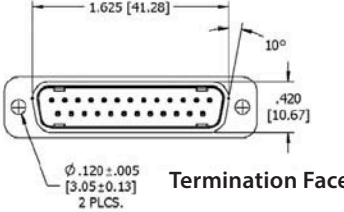
25 Shell Size



Printed Circuit Board Mount

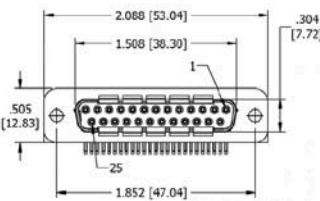
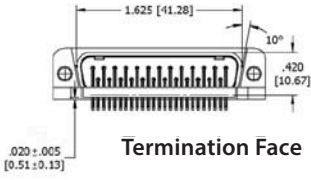
Spectrum Control Part Number	EMI Filter	
	Filter Designation**	Cap Value
56-723-001	A	310 pF Pi
56-723-002	B	1000 pF C
56-723-003	C	1000 pF Pi
56-723-004	D	5000 pF C
56-723-005	E	4000 pF Pi
56-723-024	J	100 pF Pi
56-723-025	K	2500 pF Pi

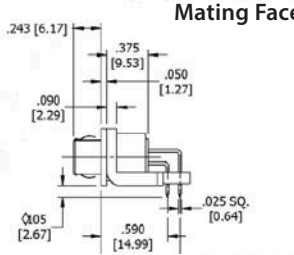
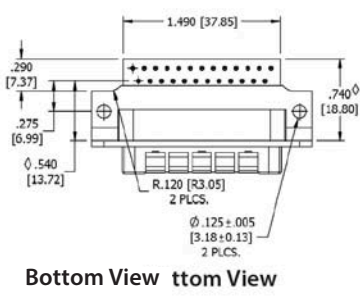





Printed Circuit Board Right Angle Mount

Spectrum Control 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
56-724-009	J	100 pF Pi
56-724-010	K	2500 pF Pi

*Replace "56-" with "56F" to indicate RoHS compliant Dimensions in inches [mm]

**See page 1 for filter performance

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

Dimensions in inches [mm]

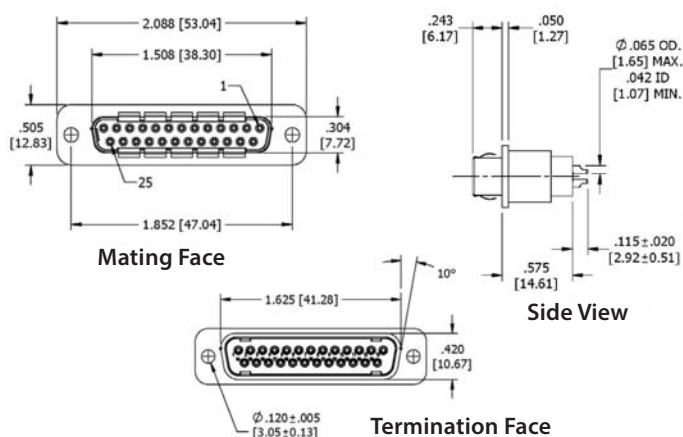
Series 700 Socket Contact & Pin/Socket Adapter

25 Shell Size



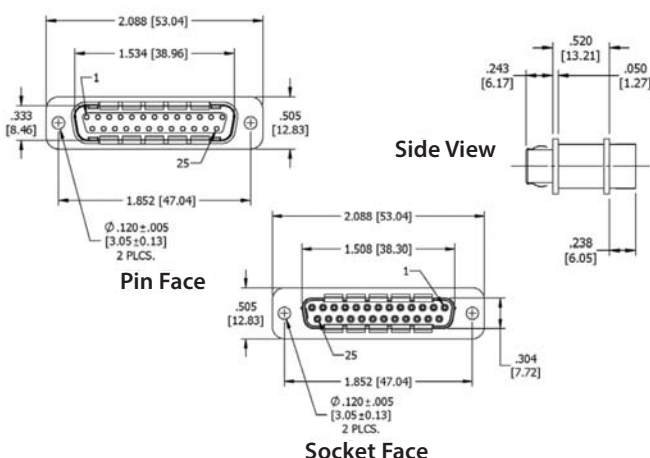
Solder Cup Termination

Spectrum Control 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
56-726-007	J	100 pF Pi
56-726-008	K	2500 pF Pi



Pin/Socket Adapter

Spectrum Control 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
56-725-020	J	100 pF Pi
56-725-021	K	2500 pF Pi



*Replace "56-" with "56F" to indicate RoHS compliant Dimensions in inches [mm]

**See page 1 for filter performance

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

Dimensions in inches [mm]

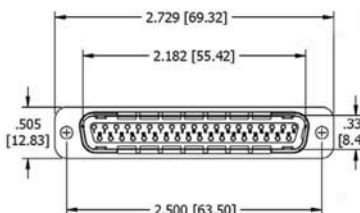
Series 700 Pin Contact

37 Shell Size

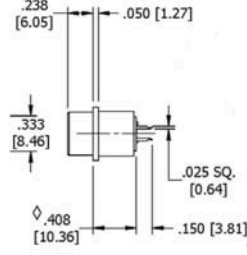


Printed Circuit Board Mount

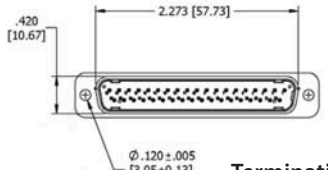
Spectrum Control Part Number	EMI Filter	
	Filter Designation**	Cap Value
56-731-001	A	310 pF Pi
56-731-002	B	1000 pF C
56-731-003	C	1000 pF Pi
56-731-004	D	5000 pF C
56-731-005	E	4000 pF Pi
56-731-029	J	100 pF Pi
56-731-030	K	2500 pF Pi



Mating Face



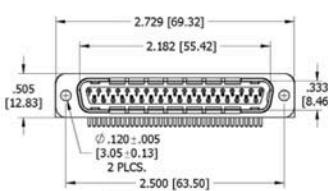
Side View



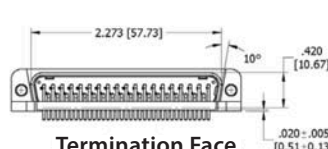
Termination Face

Printed Circuit Board Right Angle Mount

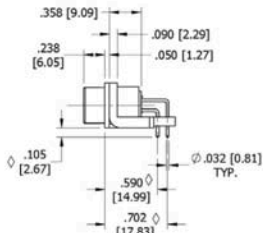
Spectrum Control Part Number	EMI Filter	
	Filter Designation**	Cap Value
56-732-001	A	310 pF Pi
56-732-002	B	1000 pF C
56-732-003	C	1000 pF Pi
56-732-004	D	5000 pF C
56-732-005	E	4000 pF Pi
56-732-007	J	100 pF Pi
56-732-008	K	2500 pF Pi



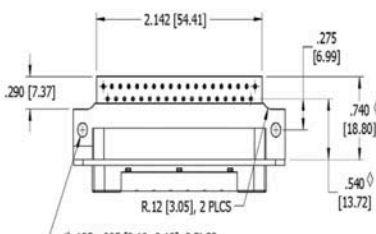
Mating Face



Termination Face



Side View



Bottom View

*Replace "56-" with "56F" to indicate RoHS compliant Dimensions in inches [mm]

**See page 1 for filter performance

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

Dimensions in inches [mm]

Series 700 Pin Contact

37 Shell Size



Solder Cup Termination

Spectrum Control 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
56-731-041	J	100 pF Pi
56-731-042	K	2500 pF Pi

Mating Face

Side View

Termination Face

*Replace "56-" with "56F" to indicate RoHS compliant Dimensions in inches [mm]

**See page 1 for filter performance

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

Dimensions in inches [mm]

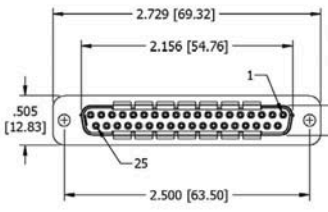
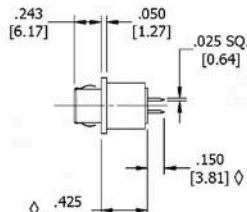
Series 700 Socket Contact

37 Shell Size



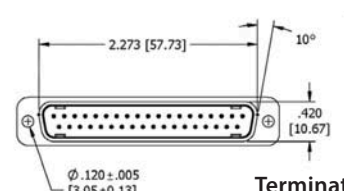
Printed Circuit Board Mount

Spectrum Control 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
56-733-022	J	100 pF Pi
56-733-023	K	2500 pF Pi

Mating Face

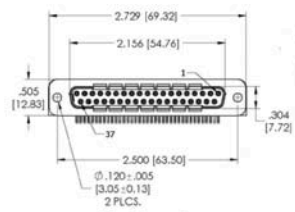
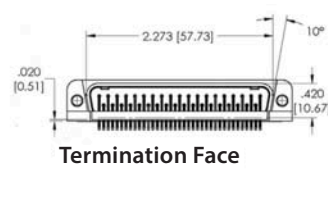
Side View



Termination Face

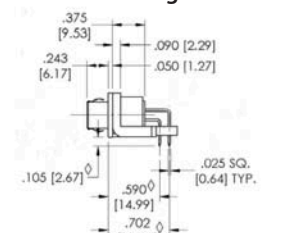
Printed Circuit Board Right Angle Mount

Spectrum Control 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
56-734-007	J	100 pF Pi
56-734-008	K	2500 pF Pi

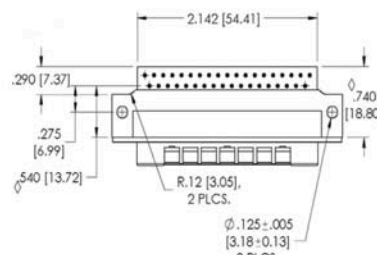



Mating Face

Termination Face



Side View



Bottom View

*Replace "56-" with "56F" to indicate RoHS compliant Dimensions in inches [mm]

**See page 1 for filter performance

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

Dimensions in inches [mm]

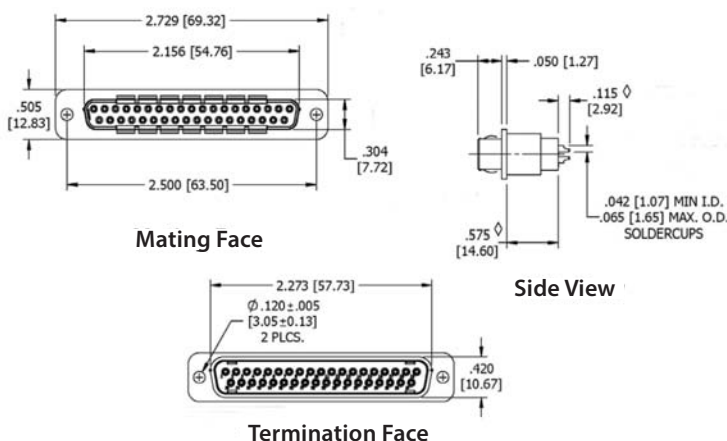
Series 700 Socket Contact & Pin/Socket Adapter

37 Shell Size



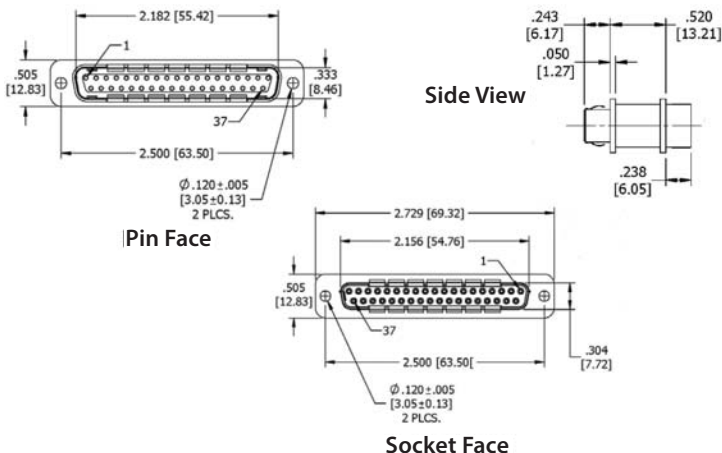
Solder Cup Termination

Spectrum Control 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
56-736-007	J	100 pF Pi
56-736-008	K	2500 pF Pi



Pin/Socket Adapter

Spectrum Control 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
56-735-009	J	100 pF Pi
56-735-010	K	2500 pF Pi



*Replace "56-" with "56F" to indicate RoHS compliant Dimensions in inches [mm]

**See page 1 for filter performance

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

Dimensions in inches [mm]

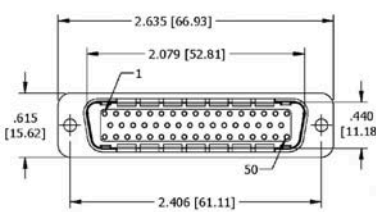
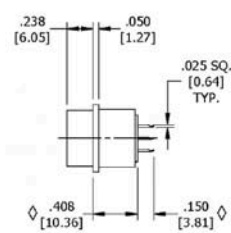
Series 700 Pin Contact

50 Shell Size



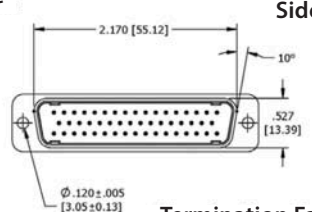
Printed Circuit Board Mount

Spectrum Control 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
56-741-028	J	100 pF Pi
56-741-029	K	2500 pF Pi

Mating Face

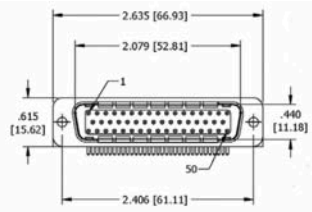
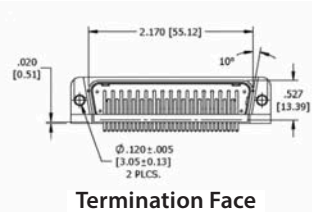
Side View



Termination Face

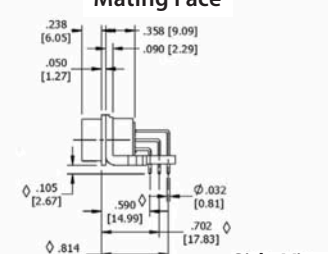
Printed Circuit Board Right Angle Mount

Spectrum Control 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
56-742-007	J	100 pF Pi
56-742-008	K	2500 pF Pi

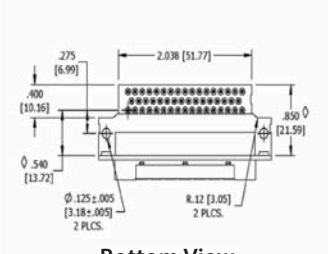



Mating Face

Termination Face



Side View



Bottom View

*Replace "56-" with "56F" to indicate RoHS compliant Dimensions in inches [mm]

**See page 1 for filter performance

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

Dimensions in inches [mm]

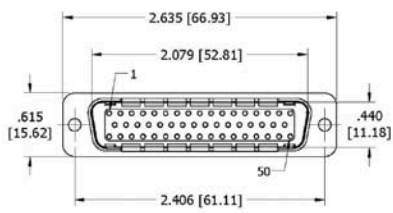
Series 700 Pin Contact

50 Shell Size

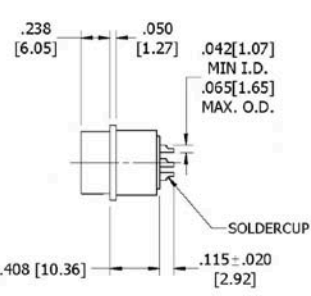


Solder Cup Termination

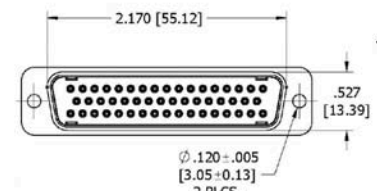
Spectrum Control Part Number	EMI Filter	
	Filter Designation**	Cap Value
56-741-011	A	310 pF Pi
56-741-012	B	1000 pF C
56-741-013	C	1000 pF Pi
56-741-014	D	5000 pF C
56-741-015	E	4000 pF Pi
56-741-040	J	100 pF Pi
56-741-041	K	2500 pF Pi



Mating Face



Side View



Termination Face

*Replace "56-" with "56F" to indicate RoHS compliant Dimensions in inches [mm]

**See page 1 for filter performance

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

Dimensions in inches [mm]

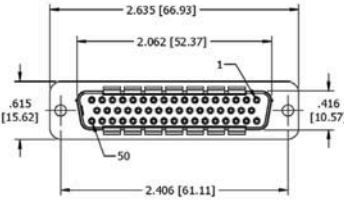
Series 700 Socket Contact

50 Shell Size

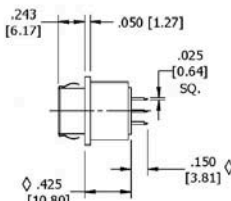


Printed Circuit Board Mount

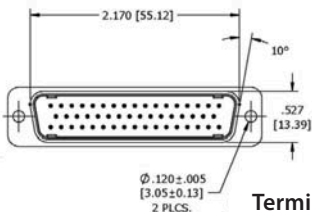
Spectrum Control Part Number	EMI Filter	
	Filter Designation**	Cap Value
56-743-001	A	310 pF Pi
56-743-002	B	1000 pF C
56-743-003	C	1000 pF Pi
56-743-004	D	5000 pF C
56-743-005	E	4000 pF Pi
56-743-022	J	100 pF Pi
56-743-023	K	2500 pF Pi



Mating Face



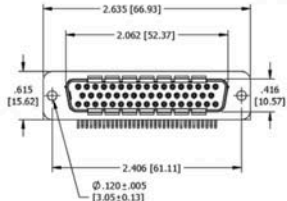
Side View



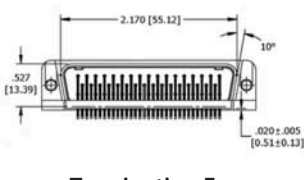
Termination Face

Printed Circuit Board Right Angle Mount

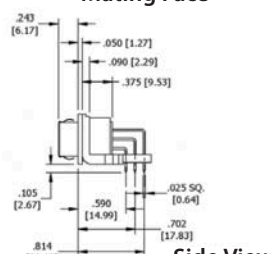
Spectrum Control Part Number	EMI Filter	
	Filter Designation**	Cap Value
56-744-001	A	310 pF Pi
56-744-002	B	1000 pF C
56-743-003	C	1000 pF Pi
56-744-004	D	5000 pF C
56-744-005	E	4000 pF Pi
56-744-007	J	100 pF Pi
56-744-008	K	2500 pF Pi



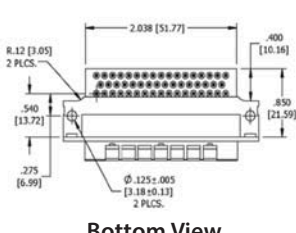
Mating Face



Termination Face



Side View



Bottom View

*Replace "56-" with "56F" to indicate RoHS compliant Dimensions in inches [mm]

**See page 1 for filter performance

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

Dimensions in inches [mm]

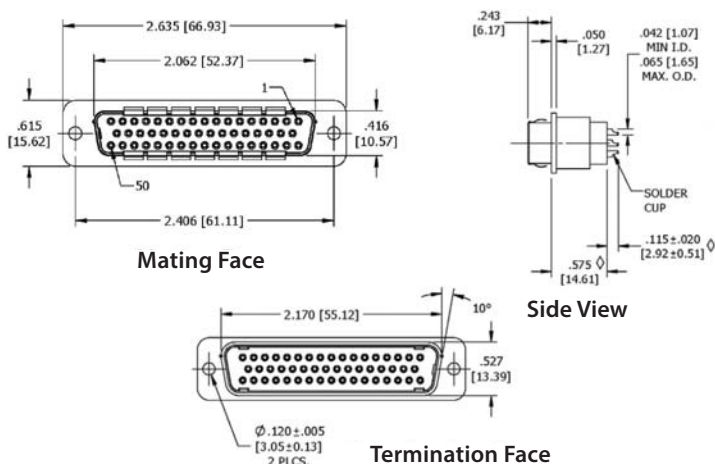
Series 700 Socket Contact & Pin/Socket Adapter

50 Shell Size



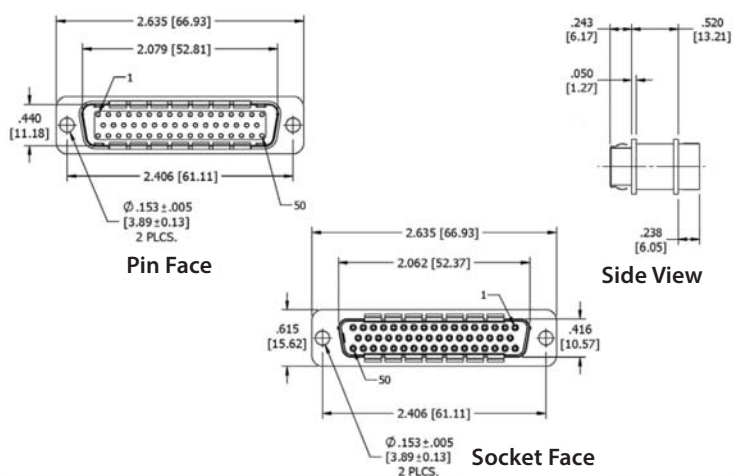
Solder Cup Termination

Spectrum Control 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
56-746-007	J	100 pF Pi
56-746-008	K	2500 pF Pi



Pin/Socket Adapter

Spectrum Control 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
56-745-007	J	100 pF Pi
56-745-008	K	2500 pF Pi



*Replace "56-" with "56F" to indicate RoHS compliant Dimensions in inches [mm]

**See page 1 for filter performance

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

Dimensions in inches [mm]

D-Subminiature Connector Options

Threaded Locking Inserts (LI)

Available on Series 600 & 700.

- #4-40 UNC or metric M3.0 threaded inserts in mounting flanges.
- Allows ease of panel-assembly.
- Plated steel inserts with last thread upset for torque.

Grounding Bracket (GB)

For right angle mount PCB connectors, available on Series 700.

- Metal bracket in place of plastic.
- Provides ground connection direct from circuit board.
- Allows shell grounding to board.
- Includes 4-40 threads.

Stand-off with Board Lock Feature (GBL6)

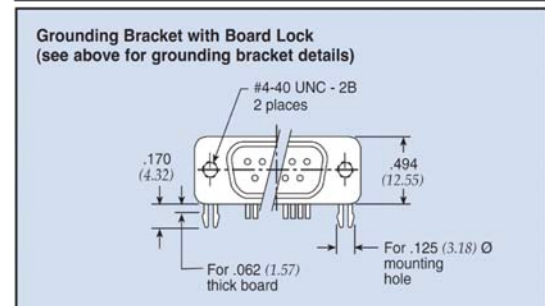
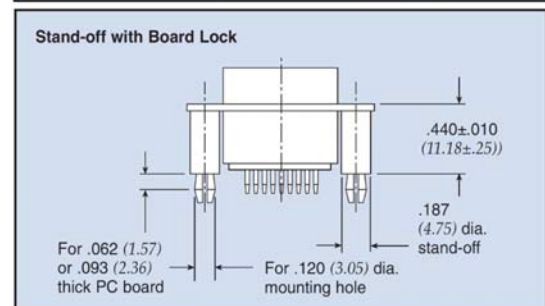
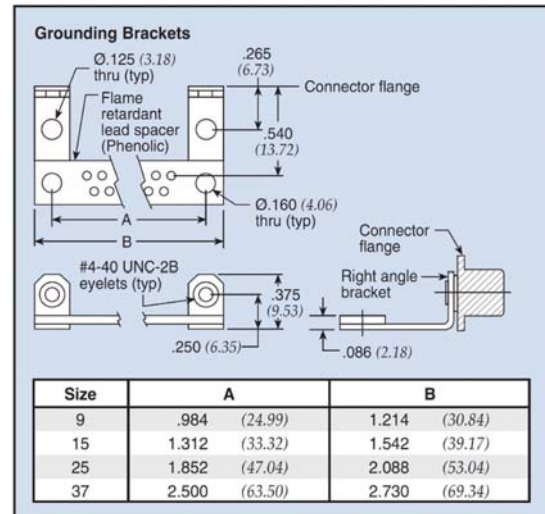
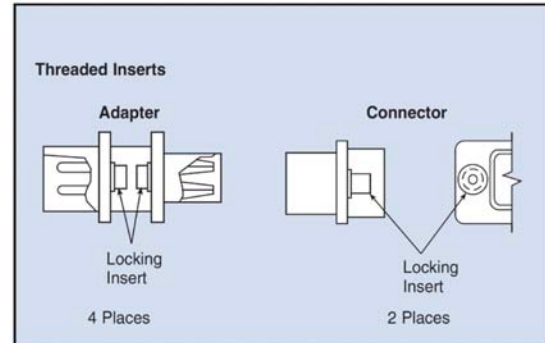
For straight PCB connectors, available on Series 700.

- Allows shell grounding to board.
- Eliminates stress on filter temperature.
- Tin plated brass stand-off with snap-in feature.
- Available for .062" (1.57mm)

Grounding Bracket with Board Lock (GBL)

For right angle mount PCB connectors, available on 700.

- Metal bracket provides grounding.
- Snap-in, no hardware needed, 4-40 threads included.
- For use on .062" (1.57mm) thick boards.



Dimensions in inches [mm]