

Series 700 High Performance Filtered Connectors

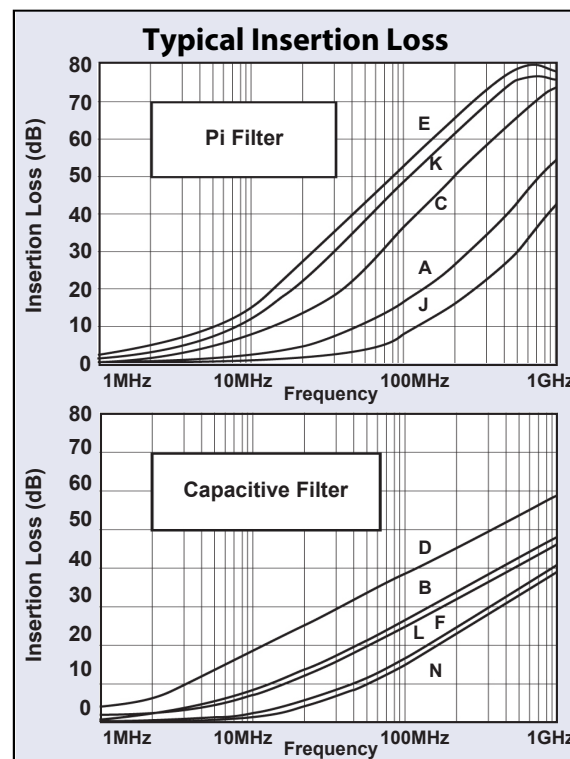
Filter Selection

APITech's 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	±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
N	C	375 pF	±25%	13.7	600V	200V	—	—	2	7	12	18	26	32
L		500 pF	±25%	10.2	600V	200V	—	—	3	9	14	20	28	34
F		830 pF	±25%	6.1	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 High Performance Filtered Connectors

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. 24: 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 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 APITech 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.

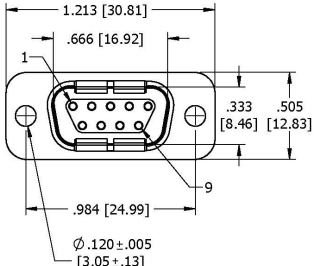
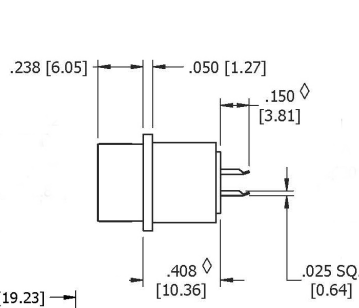
Step 3: Specifying Options

- Refer to page 24 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 APITech for part number assignment.

Series 700 Pin Contact

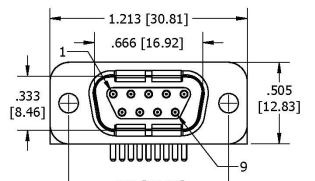
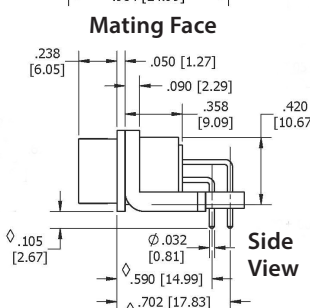
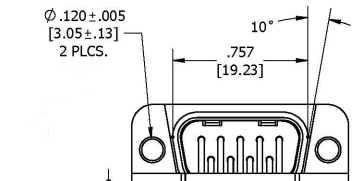
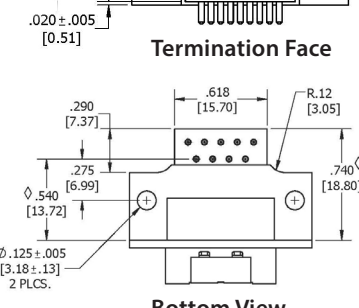
9 Shell Size

Printed Circuit Board Mount

APITech Part Number	EMI Filter		Mating Face	Side View
	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		
			Termination Face	

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

Printed Circuit Board Mount

APITech Part Number	EMI Filter		Mating Face	Side View	Termination Face	Bottom View
	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				

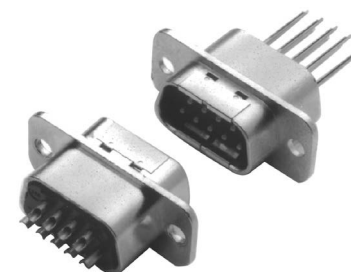
*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches [mm]

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

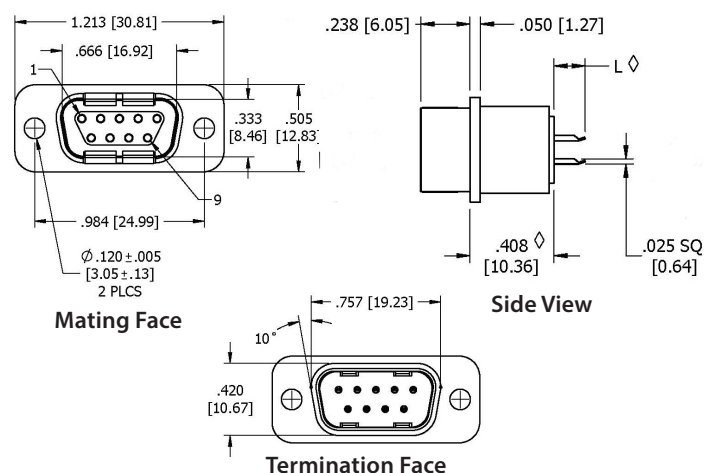
Series 700 Pin Contact

9 Shell Size



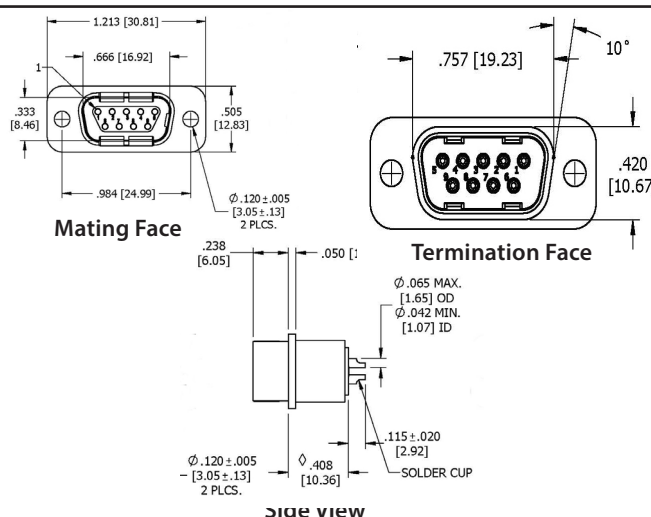
Solderless Wire Wrap

APITech Part Number <i>Select one</i>				EMI Filter	
L	L	L		Filter Desig.**	Cap. Value
.500	.375	.250			
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



Solder Cup Termination

APITech 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



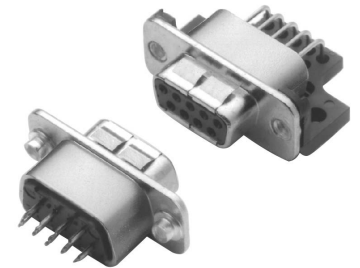
*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches [mm]

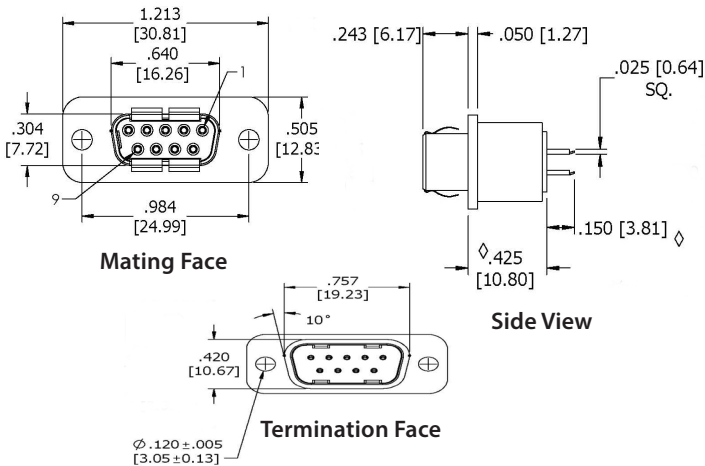
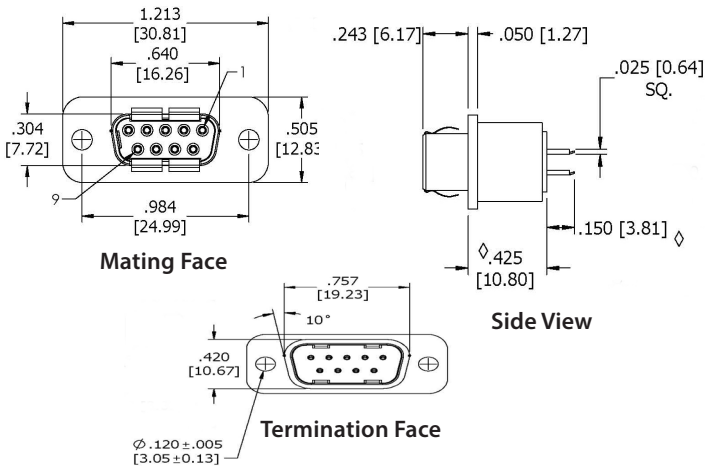
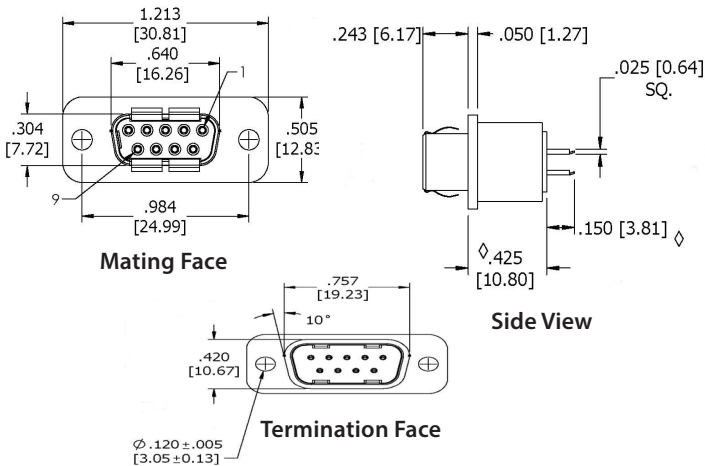
Standard Tolerance = ±.005 except where noted, ◇ = ±.015

Series 700 Socket Contact

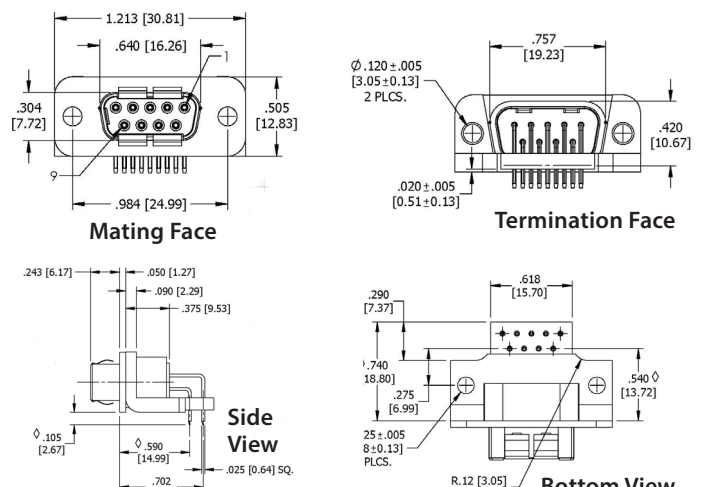
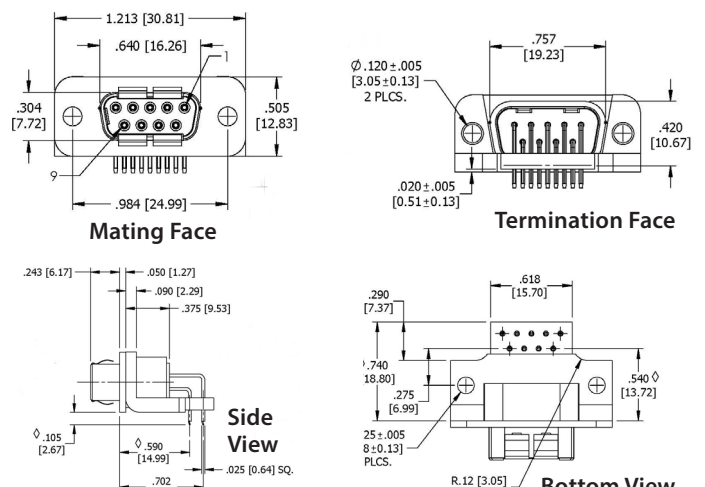
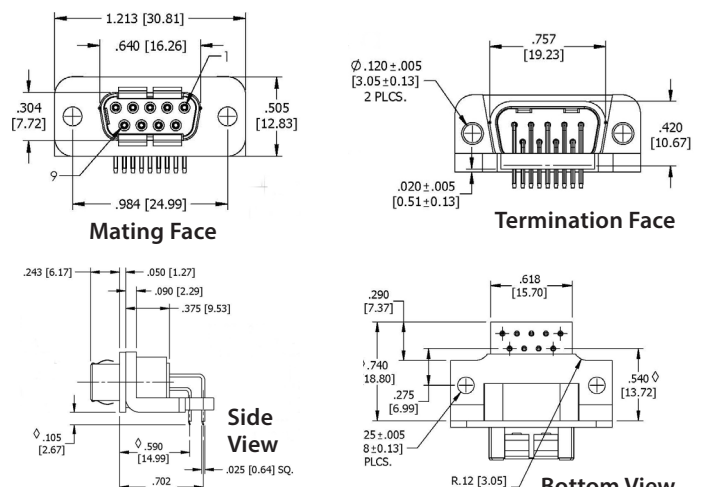
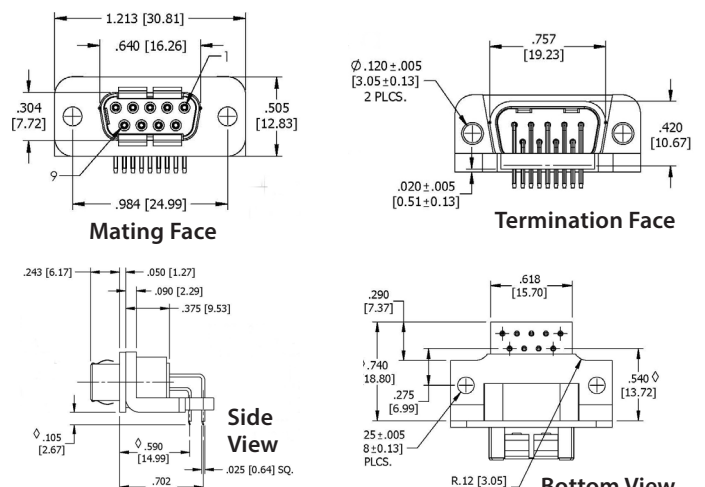
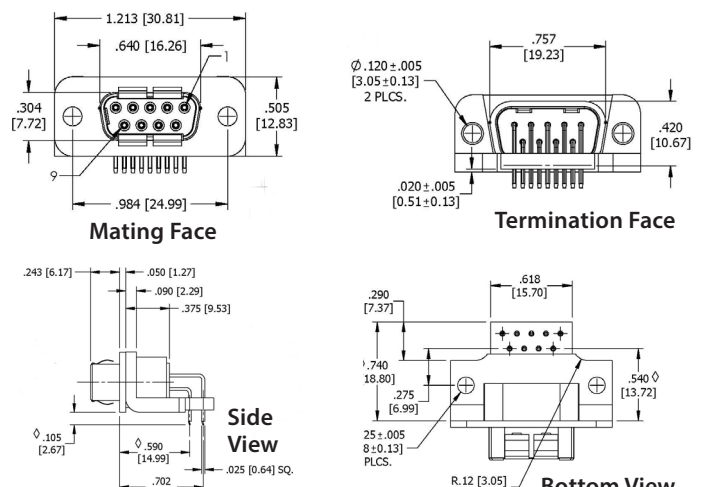
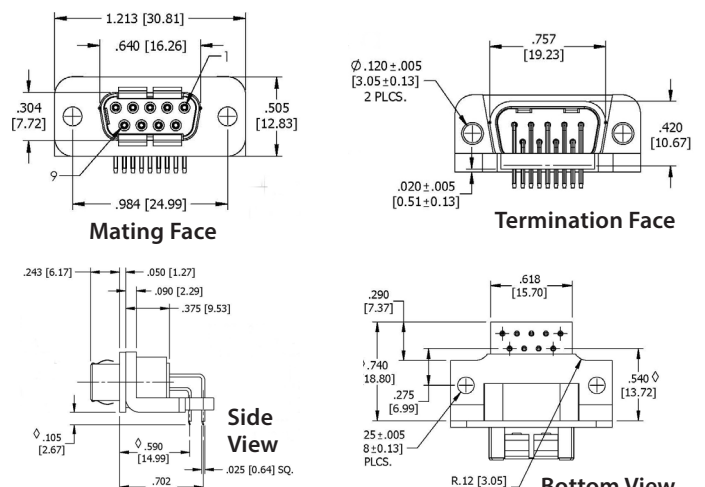
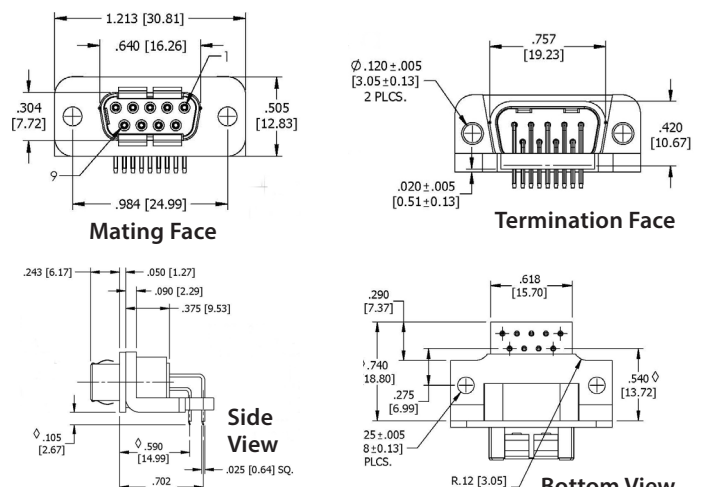
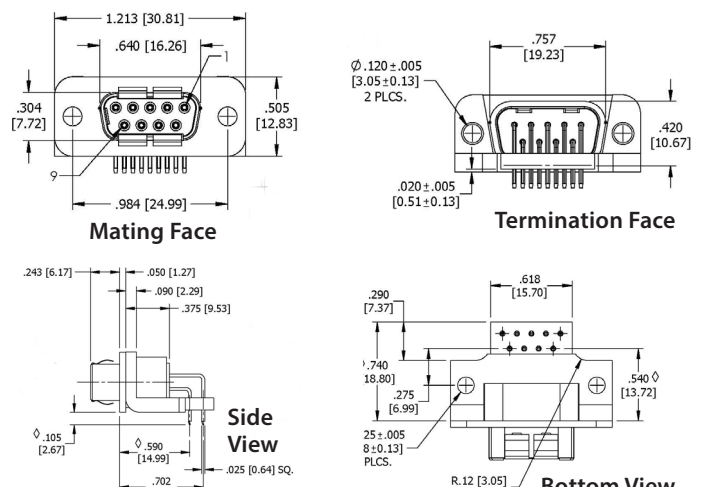
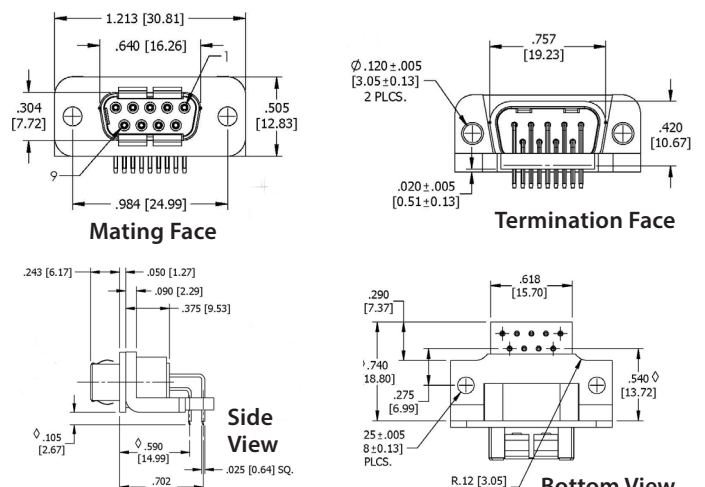
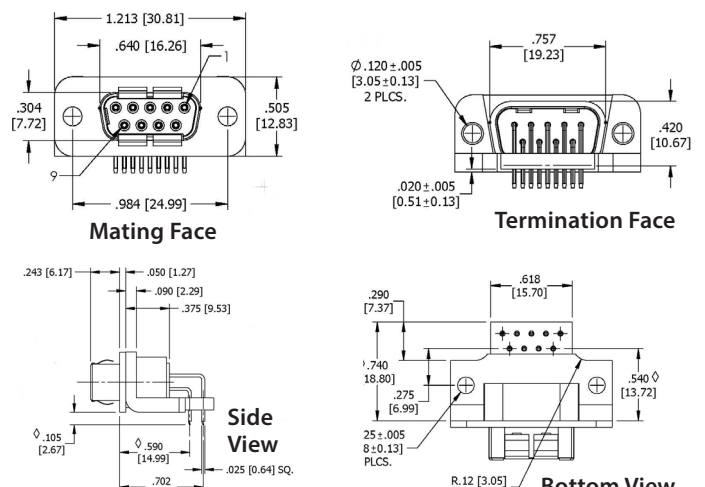
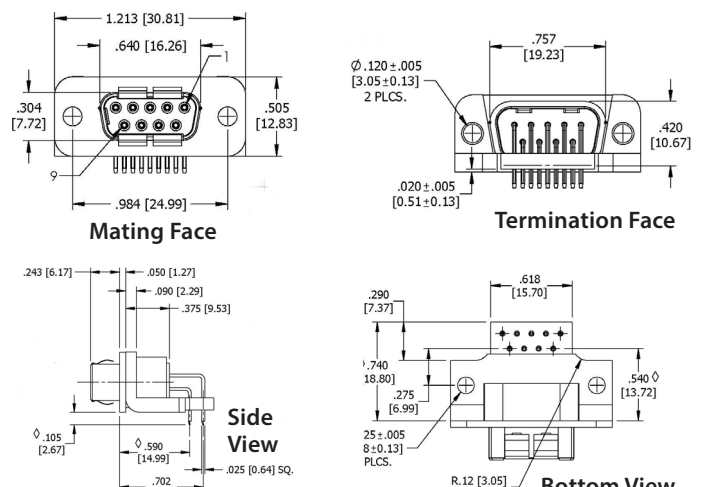
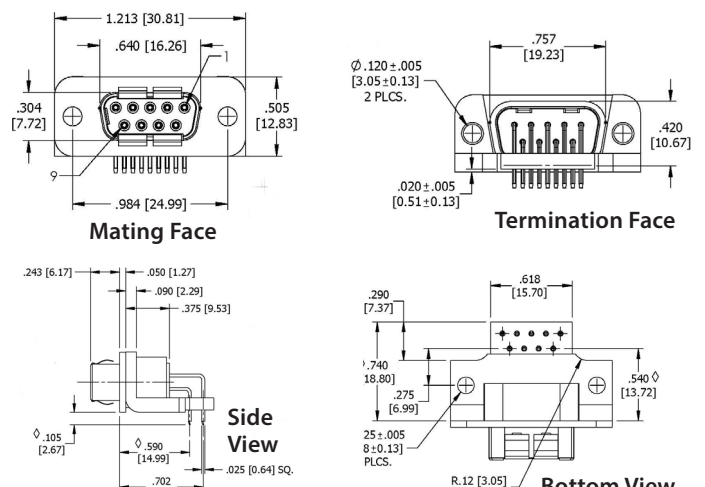
9 Shell Size



Printed Circuit Board Mount

APITech Part Number	EMI Filter		Mating Face	Side View
	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		

Printed Circuit Board Right Angle Mount

APITech Part Number	EMI Filter		Mating Face	Side View	Termination Face	Bottom View
	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, $\diamond = \pm 0.015$

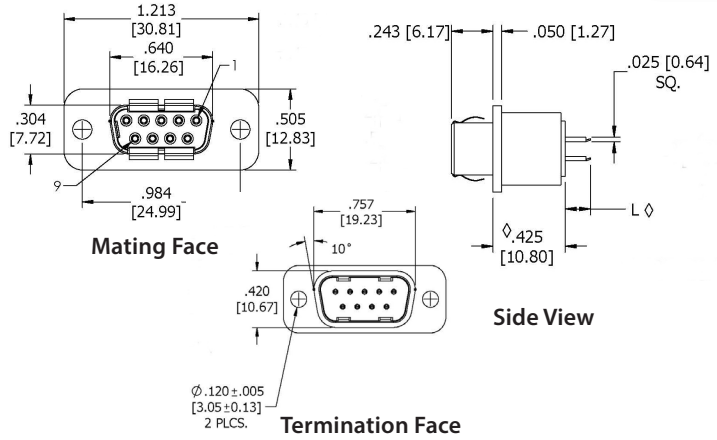
Series 700 Socket Contact & Pin/Socket Adapter

9 Shell Size

Solderless Wire Wrap



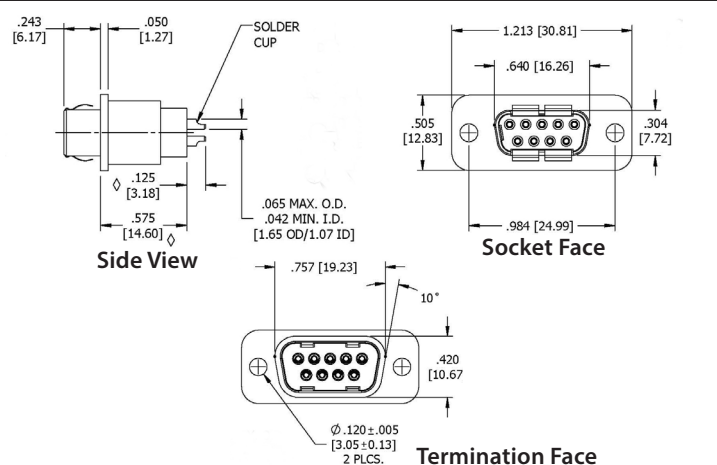
APITech Part Number Select one				EMI Filter	
L	L	L		Filter Desig.**	Cap. Value
.500	.375	.250			
56-703	-006	-016	-011	A	310 pF Pi
56-703	-007	-017	-012	B	1000 pF C
56-703	-008	-018	-013	C	1000 pF Pi
56-703	-009	-019	-014	D	5000 pF C
56-703	-010	-020	-015	E	4000 pF Pi
56-703	-031	-028	-025	F	830 pF 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



Solder Cup Termination

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

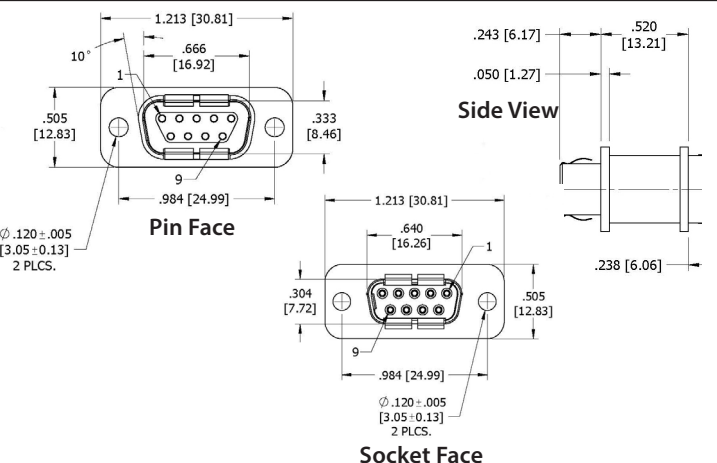
APITech Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-706-001	A	310 pF Pi
56-706-002	B	1000 pF C
56-706-003	C	1000 pF Pi
56-706-004	D	5000 pF C
56-706-005	E	4000 pF Pi
56-706-006	F	830 pF C
56-706-007	J	100 pF Pi
56-706-008	K	2500 pF Pi
56-706-009	N	375 pF C
56-706-017	L	500 pF C



Pin/Socket Adapter

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

APITech 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

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

Dimensions in inches [mm]

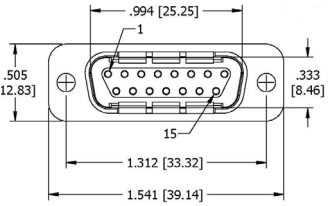
Series 700 Pin Contact

15 Shell Size

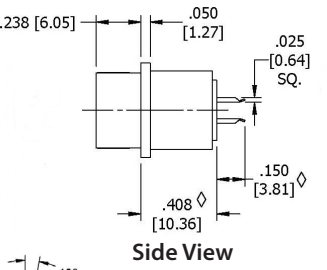


Printed Circuit Board Mount

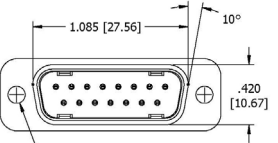
APITech Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-711-001	A	310 pF Pi
56-711-002	B	1000 pF C
56-711-003	C	1000 pF Pi
56-711-004	D	5000 pF C
56-711-005	E	4000 pF Pi
56-711-028	F	830 pF C
56-711-029	J	100 pF Pi
56-711-030	K	2500 pF Pi
56-711-048	N	375 pF C
56-711-088	L	500 pF C



Mating Face



Side View

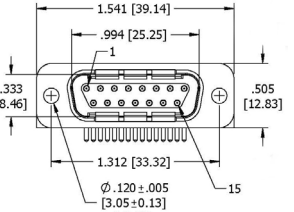


Termination Face

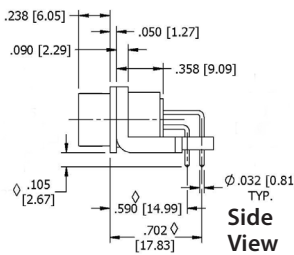
*Replace "56-" with "56F" to indicate RoHS compliant

Printed Circuit Board Right Angle Mount

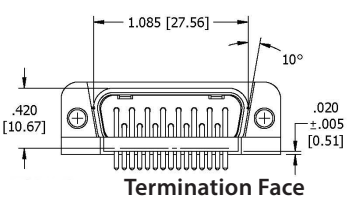
APITech Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-712-001	A	310 pF Pi
56-712-002	B	1000 pF C
56-712-003	C	1000 pF Pi
56-712-004	D	5000 pF C
56-712-005	E	4000 pF Pi
56-712-007	F	830 pF C
56-712-008	J	100 pF Pi
56-712-009	K	2500 pF Pi
56-712-017	N	375 pF C
56-712-039	L	500 pF C



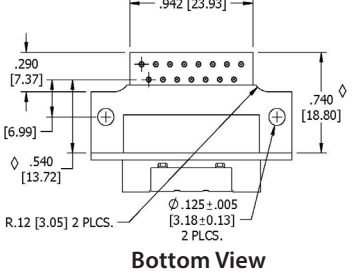
Mating Face



Side View



Termination Face



Bottom View

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

Dimensions in inches [mm]

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

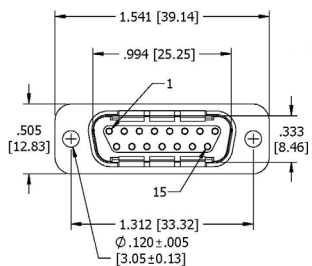
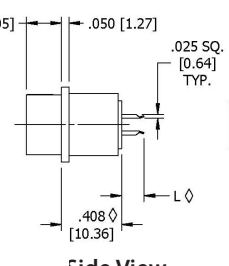
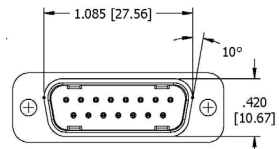
Series 700 Pin Contact

15 Shell Size



Solderless Wire Wrap

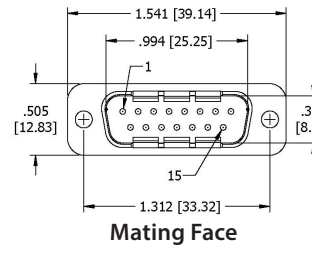
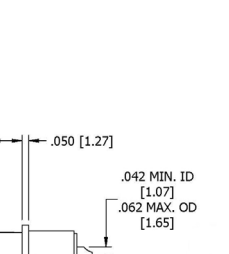
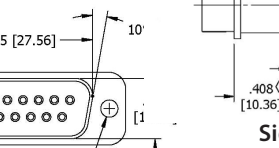
APITech Part Number <i>Select one</i>				EMI Filter	
L	L	L		Filter Desig.**	Cap. Value
.500	.375	.250			
56-711	-006	-023	-018	A	310 pF Pi
56-711	-007	-024	-019	B	1000 pF C
56-711	-008	-025	-020	C	1000 pF Pi
56-711	-009	-026	-021	D	5000 pF C
56-711	-010	-027	-022	E	4000 pF Pi
56-711	-037	-034	-031	F	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

APITech 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

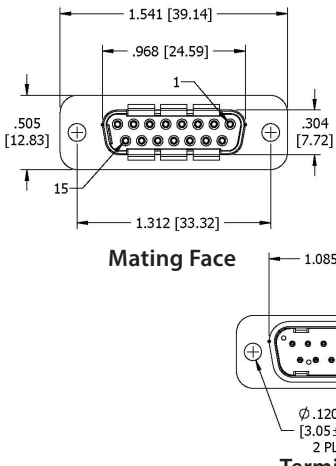
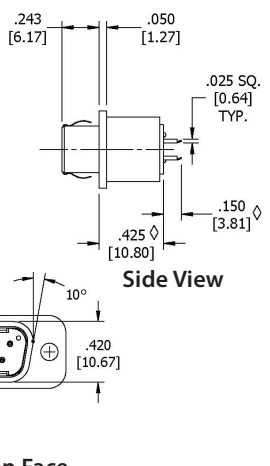
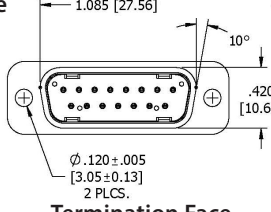
Dimensions in inches [mm]

Series 700 Socket Contact

15 Shell Size

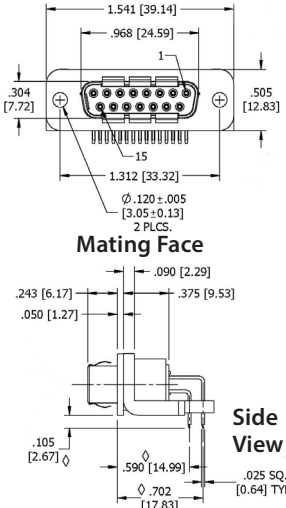
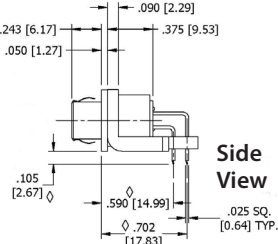
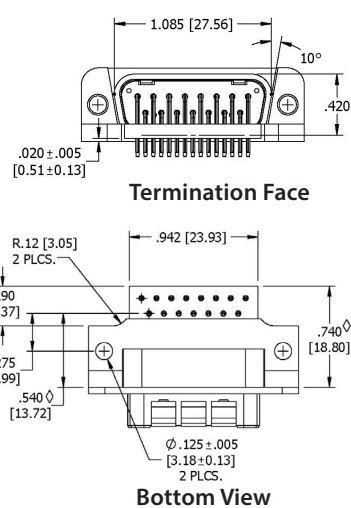
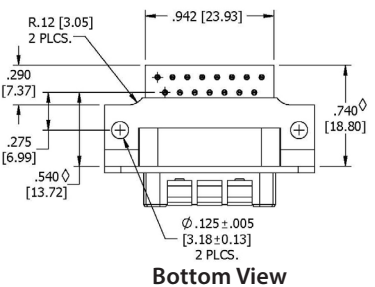


Printed Circuit Board Mount

APITech Part Number	EMI Filter		Mating Face	Side View	Termination Face
	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

APITech Part Number	EMI Filter		Mating Face	Side View	Termination Face	Bottom View
	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]

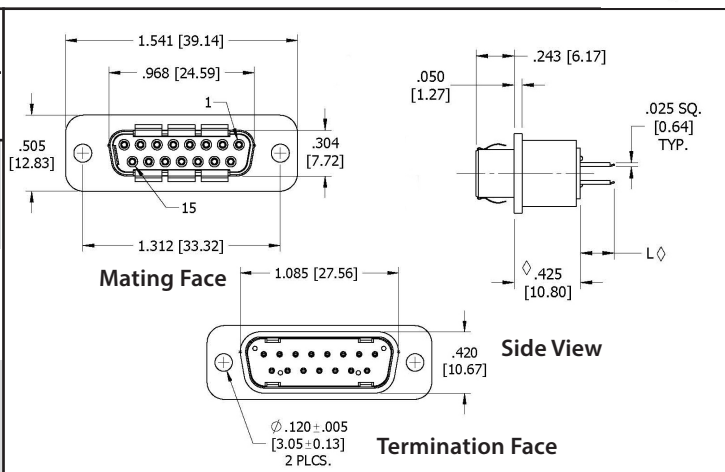
Standard Tolerance = ±.005 except where noted, Ø = ±.015

Series 700 Socket Contact & Pin/Socket Adapter

15 Shell Size

Solderless Wire Wrap

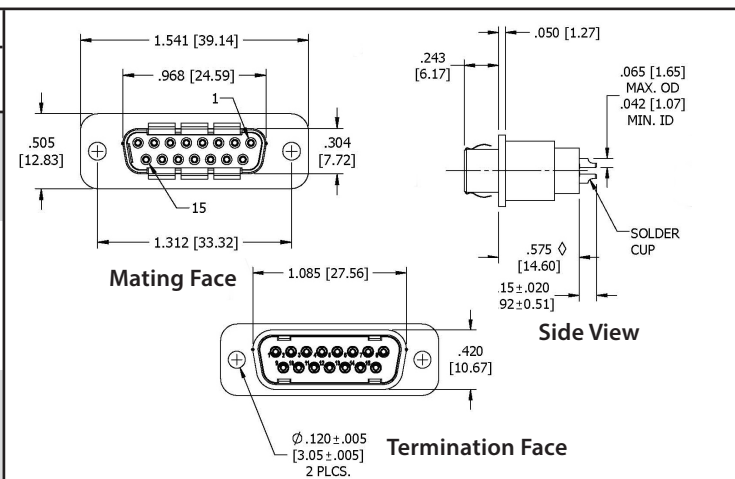
APITech Part Number <i>Select one</i>	EMI Filter				
	L .500	L .375	L .250	Filter Desig.**	Cap. Value
56-713 -006 -016 -011				A	310 pF Pi
56-713 -007 -017 -012				B	1000 pF C
56-713 -008 -018 -013				C	1000 pF Pi
56-713 -009 -019 -014				D	5000 pF C
56-713 -010 -020 -015				E	4000 pF Pi
56-713 -030 -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



Solder Cup Termination

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

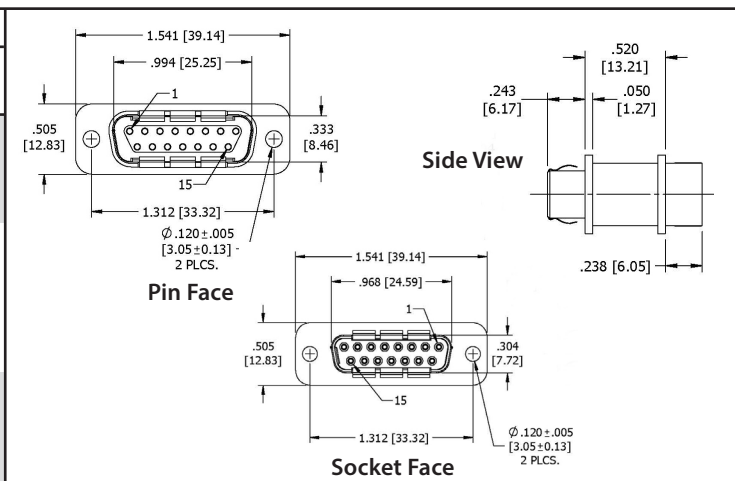
APITech Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-716-001	A	310 pF Pi
56-716-002	B	1000 pF C
56-716-003	C	1000 pF Pi
56-716-004	D	5000 pF C
56-716-005	E	4000 pF Pi
56-716-006	F	830 pF C
56-716-007	J	100 pF Pi
56-716-008	K	2500 pF Pi
56-716-009	N	375 pF C
56-716-013	L	500 pF C



Pin/Socket Adapter

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

APITech 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



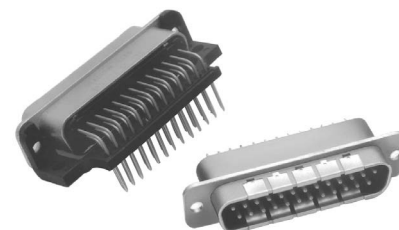
*Replace "56-" with "56F" to indicate RoHS compliant

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

Dimensions in inches [mm]

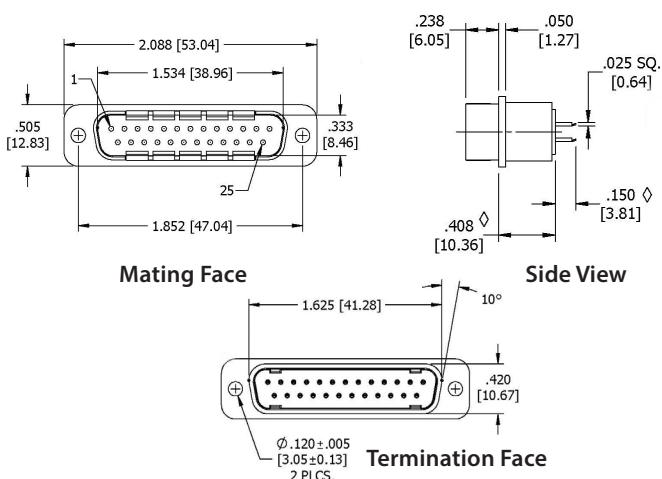
Series 700 Pin Contact

25 Shell Size



Printed Circuit Board Mount

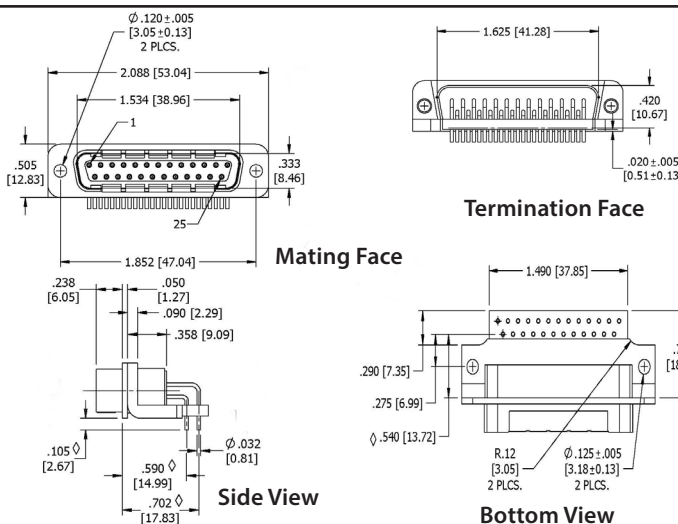
APITech Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-721-001	A	310 pF Pi
56-721-002	B	1000 pF C
56-721-003	C	1000 pF Pi
56-721-004	D	5000 pF C
56-721-005	E	4000 pF Pi
56-721-033	F	830 pF C
56-721-034	J	100 pF Pi
56-721-035	K	2500 pF Pi
56-721-063	N	375 pF C
56-721-011	L	500 pF C



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

Printed Circuit Board Right Angle Mount

APITech 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



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

Dimensions in inches [mm]

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

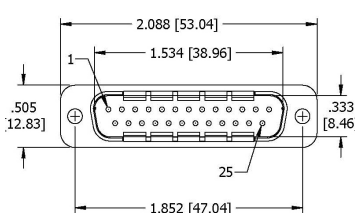
Series 700 Pin Contact

25 Shell Size

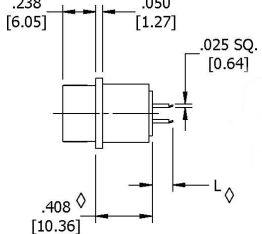


Solderless Wire Wrap

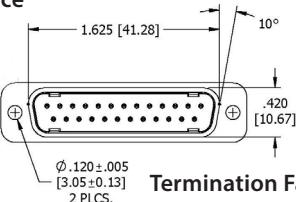
APITech Part Number <i>Select one</i>	EMI Filter				
	L .500	L .375	L .250	Filter Desig.**	Cap. Value
56-721 -006 -028 -024				A	310 pF Pi
56-721 -007 -029 -025				B	1000 pF C
56-721 -008 -030 -026				C	1000 pF Pi
56-721 -009 -031 -022				D	5000 pF C
56-721 -010 -032 -027				E	4000 pF Pi
56-721 -042 -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



Mating Face



Side View

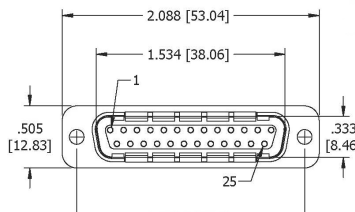


Termination Face

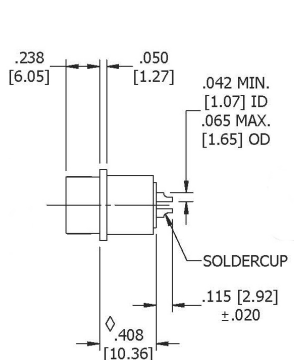
*Replace "56-" with "56F" to indicate RoHS compliant

Solder Cup Termination

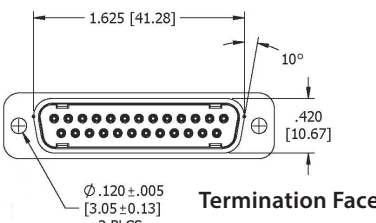
APITech Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-721-011	A	310 pF Pi
56-721-012	B	1000 pF C
56-721-013	C	1000 pF Pi
56-721-014	D	5000 pF C
56-721-015	E	4000 pF Pi
56-721-045	F	830 pF C
56-721-046	J	100 pF Pi
56-721-047	K	2500 pF Pi
56-721-070	N	375 pF C
56-721-112	L	500 pF C



Mating Face



Side View



Termination Face

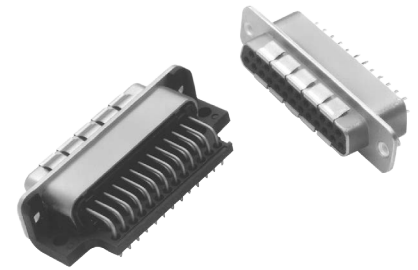
*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches [mm]

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

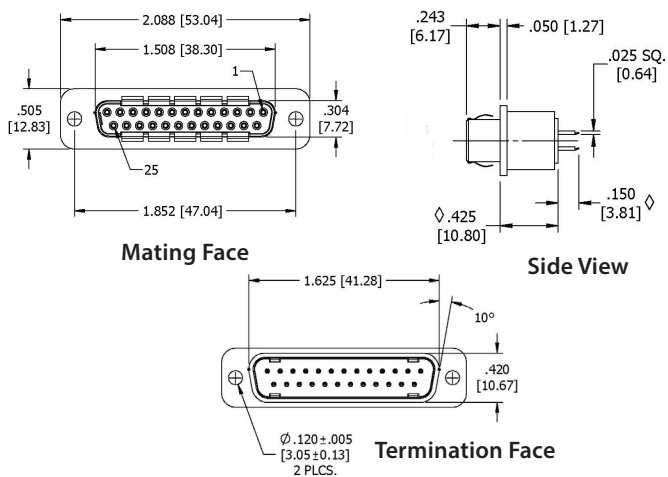
Series 700 Socket Contact

25 Shell Size



Printed Circuit Board Mount

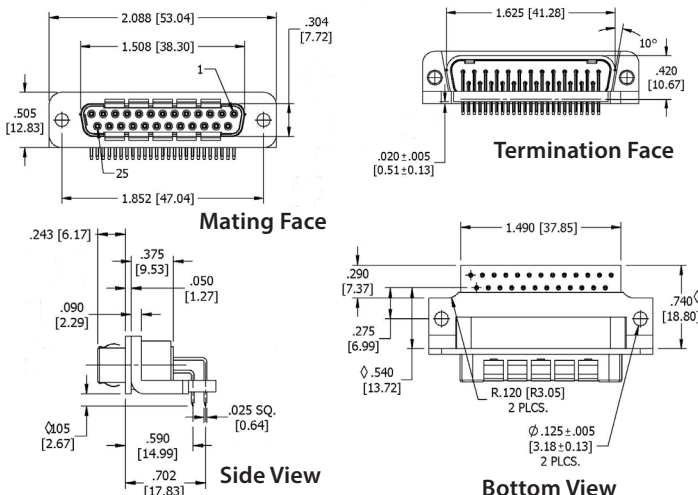
APITech Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-723-001	A	310 pF Pi
56-723-002	B	1000 pF C
56-723-003	C	1000 pF Pi
56-723-004	D	5000 pF C
56-723-005	E	4000 pF Pi
56-723-023	F	830 pF C
56-723-024	J	100 pF Pi
56-723-025	K	2500 pF Pi
56-723-045	N	375 pF C
56-723-069	L	500 pF C



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

Printed Circuit Board Right Angle Mount

APITech 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]

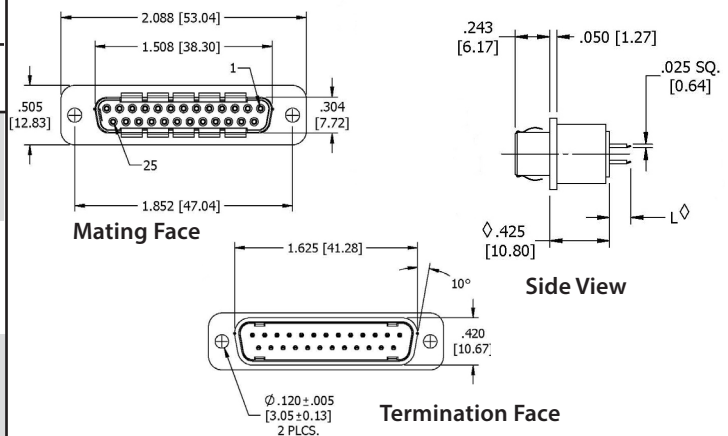
Standard Tolerance = ±.005 except where noted, ◇ = ±.015

Series 700 Socket Contact & Pin/Socket Adapter

25 Shell Size

Solderless Wire Wrap

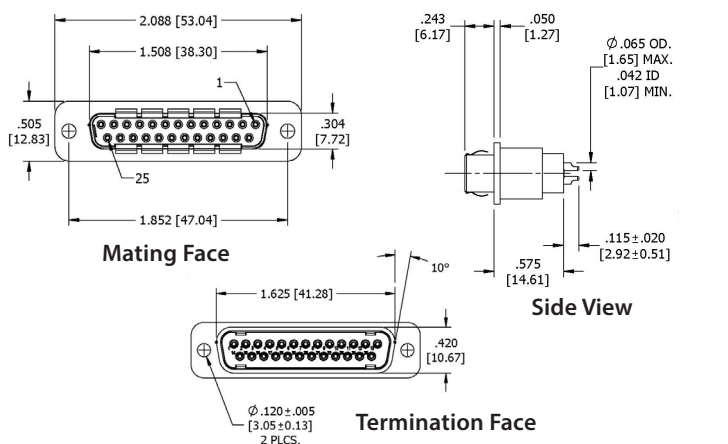
APITech Part Number <i>Select one</i>	EMI Filter				Filter Desig.**	Cap. Value
	L .500	L .375	L .250			
56-723 -006 -017 -012					A	310 pF Pi
56-723 -007 -018 -013					B	1000 pF C
56-723 -008 -019 -014					C	1000 pF Pi
56-723 -009 -020 -015					D	5000 pF C
56-723 -010 -021 -016					E	4000 pF Pi
56-723 -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



Solder Cup Termination

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

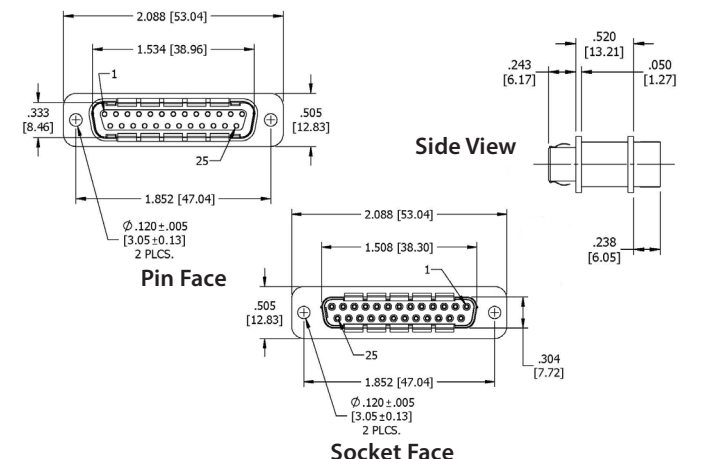
APITech Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-726-001	A	310 pF Pi
56-726-002	B	1000 pF C
56-726-003	C	1000 pF Pi
56-726-004	D	5000 pF C
56-726-005	E	4000 pF Pi
56-726-006	F	830 pF C
56-726-007	J	100 pF Pi
56-726-008	K	2500 pF Pi
56-726-009	N	375 pF C
56-726-021	L	500 pF C



Pin/Socket Adapter

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

APITech 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

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

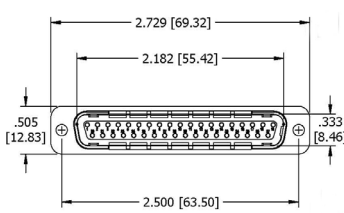
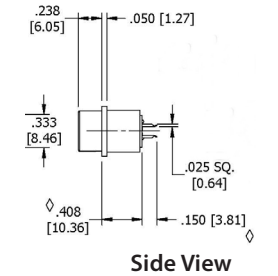
Dimensions in inches [mm]

Series 700 Pin Contact

37 Shell Size

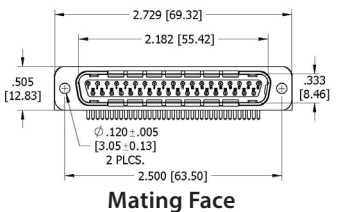
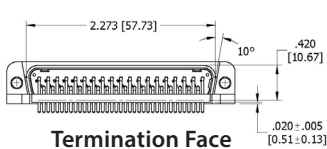


Printed Circuit Board Mount

APITech Part Number	EMI Filter		Mating Face	Side View
	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		
			Termination Face	

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

Printed Circuit Board Right Angle Mount

APITech Part Number	EMI Filter		Mating Face	Termination Face
	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		
			Side View	Bottom View

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

Dimensions in inches [mm]

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

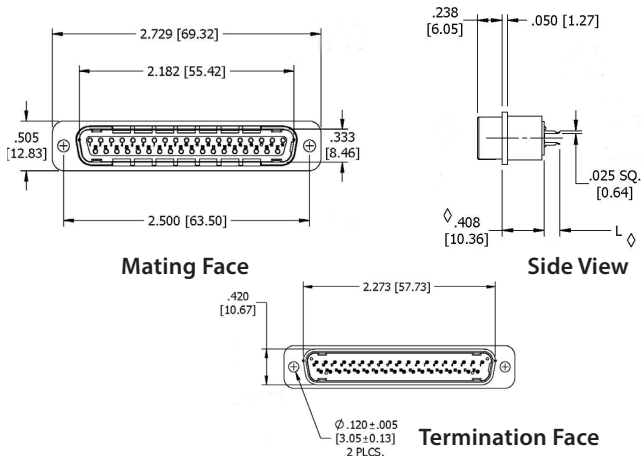
Series 700 Pin Contact

37 Shell Size



Solderless Wire Wrap

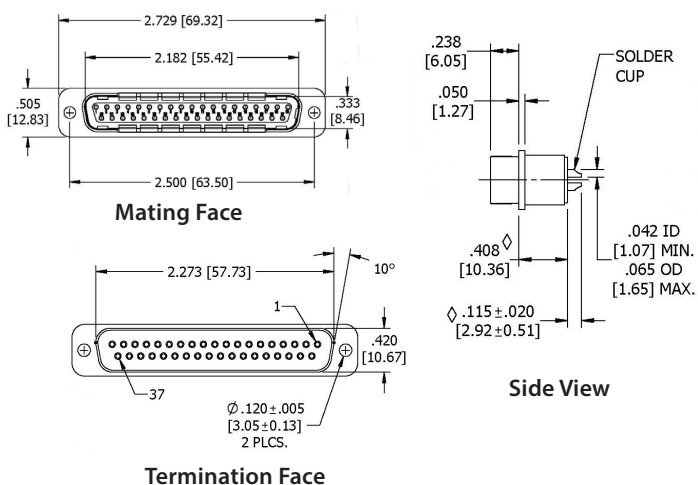
APITech Part Number <i>Select one</i>	EMI Filter				
	L .500	L .375	L .250	Filter Desig.**	Cap. Value
56-731 -006 -023 -018				A	310 pF Pi
56-731 -007 -024 -019				B	1000 pF C
56-731 -008 -025 -020				C	1000 pF Pi
56-731 -009 -026 -021				D	5000 pF C
56-731 -010 -027 -022				E	4000 pF Pi
56-731 -037 -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

APITech 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



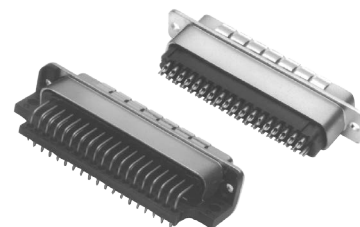
*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches [mm]

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

Series 700 Socket Contact

37 Shell Size



Printed Circuit Board Mount

APITech 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

APITech 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 = ±.005 except where noted, ◇ = ±.015

Series 700 Socket Contact & Pin/Socket Adapter

37 Shell Size

Solderless Wire Wrap

APITech 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	

Solder Cup Termination

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

APITech 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	

Pin/Socket Adapter

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

APITech 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	

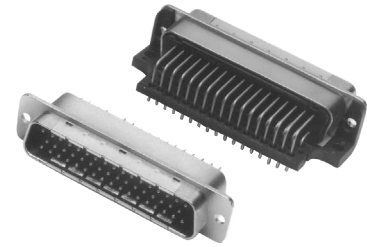
*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches [mm]

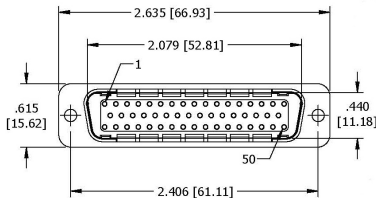
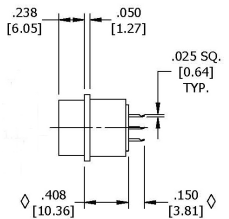
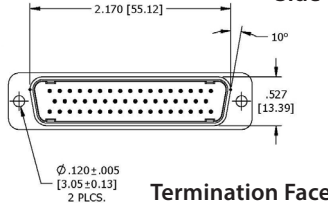
Standard Tolerance = ± 0.005 except where noted, $\diamond = \pm 0.015$

Series 700 Pin Contact

50 Shell Size

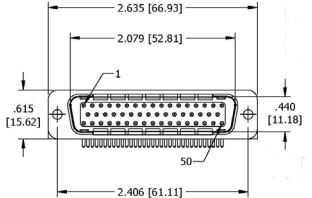
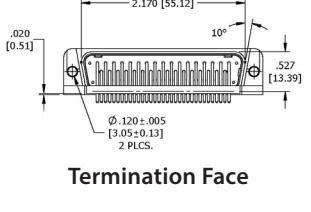
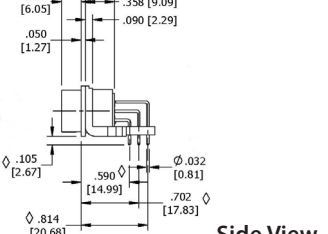
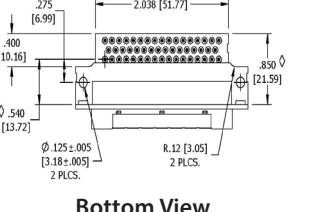


Printed Circuit Board Mount

APITech Part Number	EMI Filter		Mating Face	Side View
	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		
			Termination Face	
				

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

Printed Circuit Board Right Angle Mount

APITech Part Number	EMI Filter		Mating Face	Termination Face
	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		
			Side View	Bottom View
				

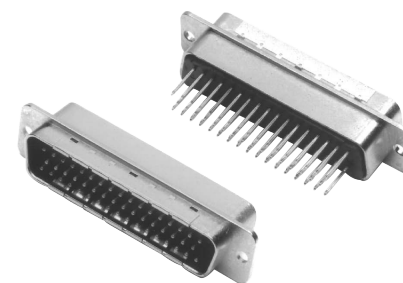
*Replace "56-" with "56F" to indicate RoHS compliant

Dimensions in inches [mm]

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

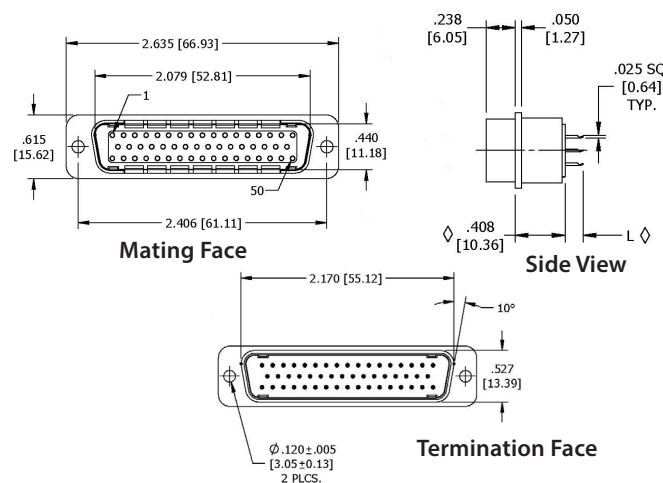
Series 700 Pin Contact

50 Shell Size



Solderless Wire Wrap

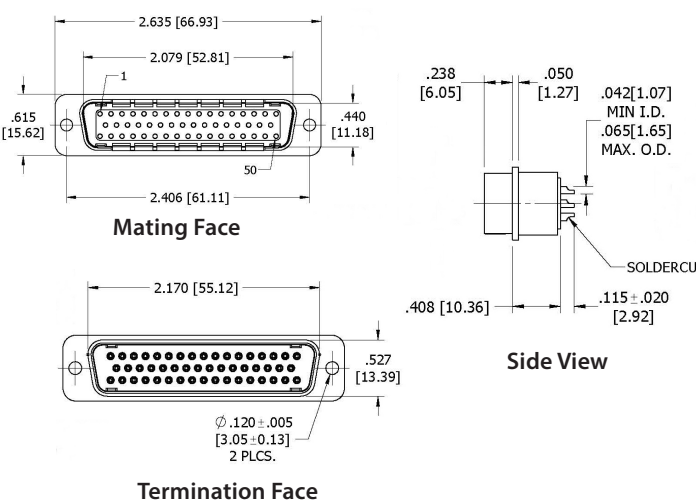
APITech Part Number <i>Select one</i>	EMI Filter	
	Filter Desig.**	Cap. Value
	L	L
	.500	.375 .250
56-741 -006 -022 -017	A	310 pF Pi
56-741 -007 -023 -018	B	1000 pF C
56-741 -008 -024 -019	C	1000 pF Pi
56-741 -009 -025 -020	D	5000 pF C
56-741 -010 -026 -021	E	4000 pF Pi
56-741 -036 -033 -030	F	830 pF 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

APITech 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 = ±.005 except where noted, ◇ = ±.015

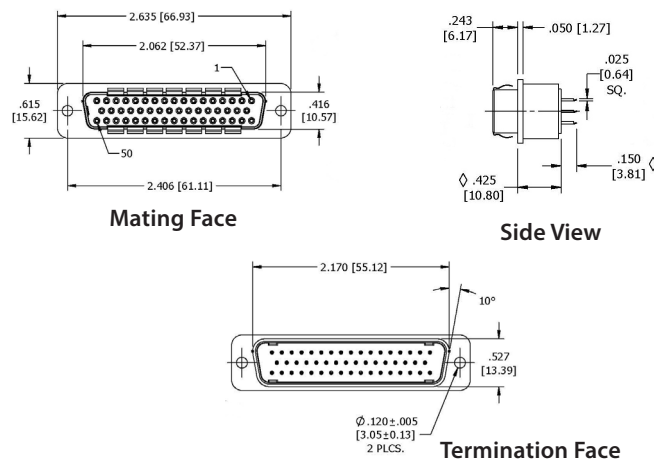
Series 700 Socket Contact

50 Shell Size



Printed Circuit Board Mount

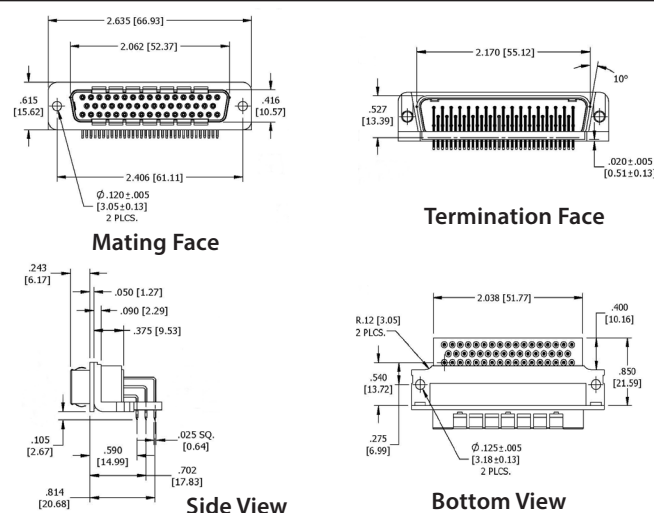
APITech Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-743-001	A	310 pF Pi
56-743-002	B	1000 pF C
56-743-003	C	1000 pF Pi
56-743-004	D	5000 pF C
56-743-005	E	4000 pF Pi
56-743-021	F	830 pF C
56-743-022	J	100 pF Pi
56-743-023	K	2500 pF Pi
56-743-033	N	375 pF C
56-743-043	L	500 pF C



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

Printed Circuit Board Right Angle Mount

APITech 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]

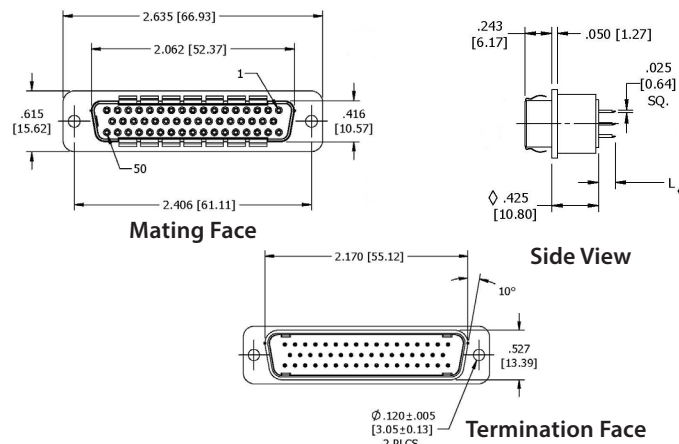
Standard Tolerance = ±.005 except where noted, ◇ = ±.015

Series 700 Socket Contact & Pin/Socket Adapter

50 Shell Size

Solderless Wire Wrap

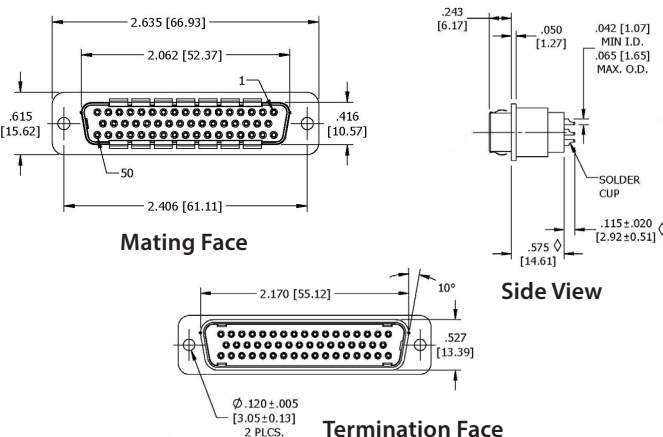
APITech Part Number <i>Select one</i>	EMI Filter				Filter Desig.**	Cap. Value
	L .500	L .375	L .250			
56-743 -006 -016 -011					A	310 pF Pi
56-743 -007 -017 -012					B	1000 pF C
56-743 -008 -018 -013					C	1000 pF Pi
56-743 -009 -019 -014					D	5000 pF C
56-743 -010 -020 -015					E	4000 pF Pi
56-743 -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



Solder Cup Termination

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

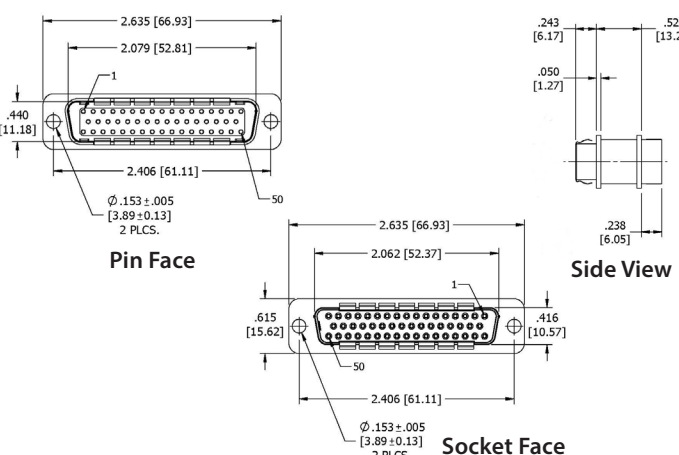
APITech Part Number	EMI Filter	
	Filter Designation**	Cap. Value
56-746-001	A	310 pF Pi
56-746-002	B	1000 pF C
56-746-003	C	1000 pF Pi
56-746-004	D	5000 pF C
56-746-005	E	4000 pF Pi
56-746-006	F	830 pF C
56-746-007	J	100 pF Pi
56-746-008	K	2500 pF Pi
56-746-009	N	375 pF C
56-746-018	L	500 pF C



Pin/Socket Adapter

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

APITech 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

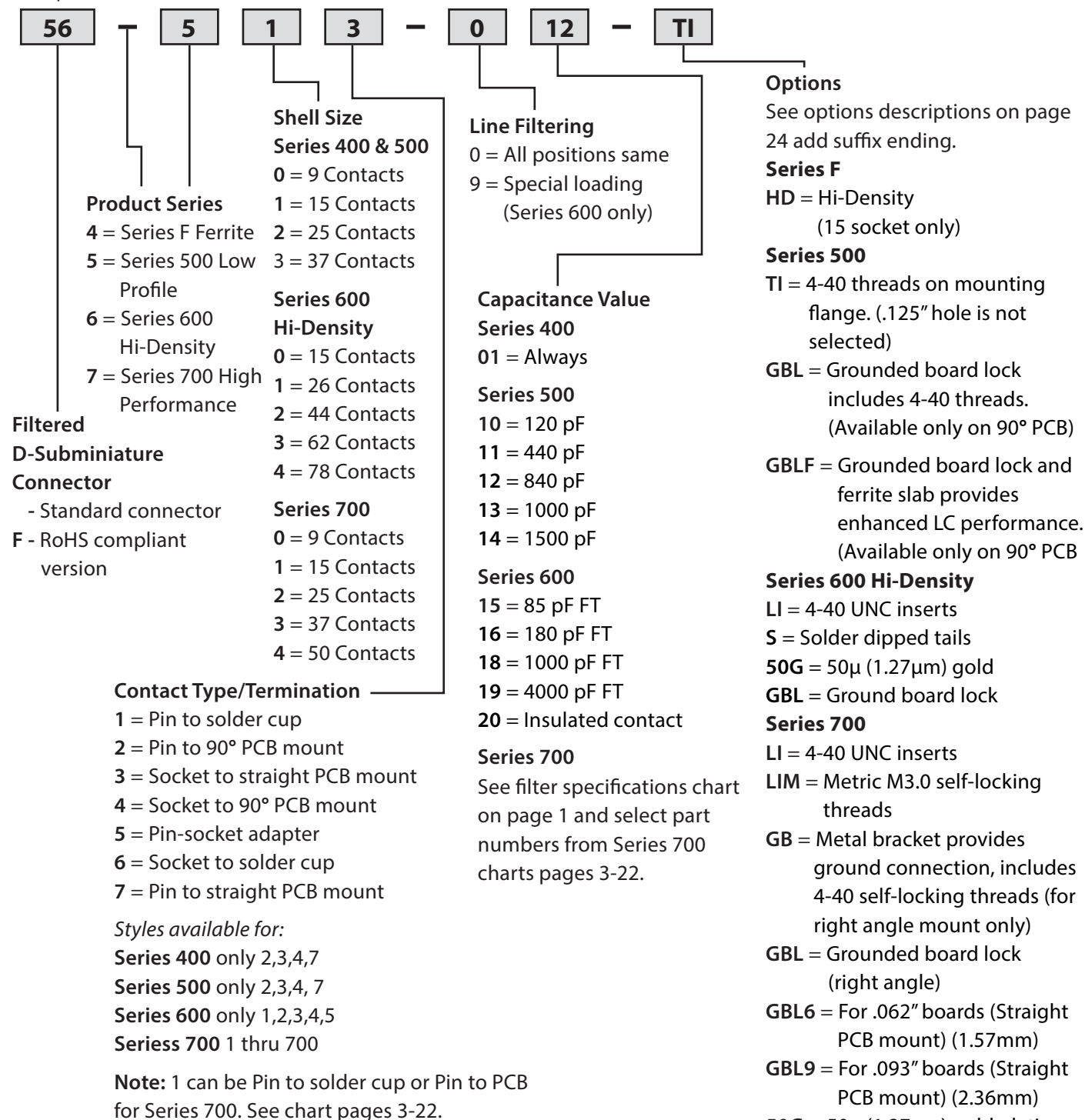
Standard Tolerance = ±.005 except where noted, ∅ = ±.015

Dimensions in inches [mm]

D-Subminiature Part Numbering System

Ordering Information

Example: 56-513-012-TI



To assist your efforts in selecting the correct Filtered Connector to meet your needs, we have developed a part numbering system. All of the standard products are shown in their respective catalog pages.

Part number 56-513-012-TI represents a Series 500 connector with 15 contacts in a socket to straight PCB mount configuration. All connector positions have a capacitance value of 840 pF and there are 4-40 threads on mounting flange.

D-Subminiature Connector Options

Threaded Inserts

Available on Series 500, 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

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

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) or .093" (2.36mm).

Grounding Bracket with Board Lock

For right angle mount PCB connectors, available on Series 500 & 700.

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

Gold Plating

Available on Series 600 & 700.

- High reliability applications, 50μ" (1.27μm) gold over 50μ" nickel.

Solder Dipped Tails

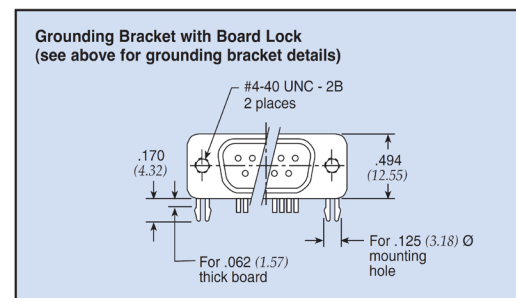
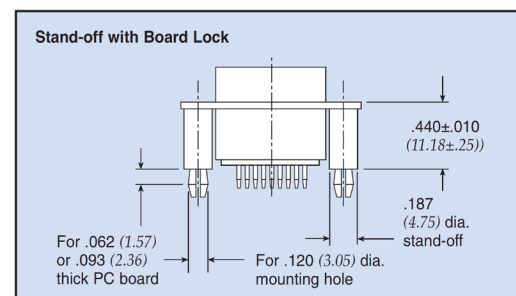
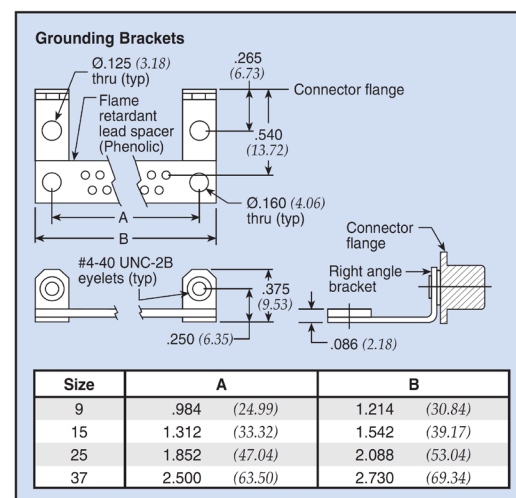
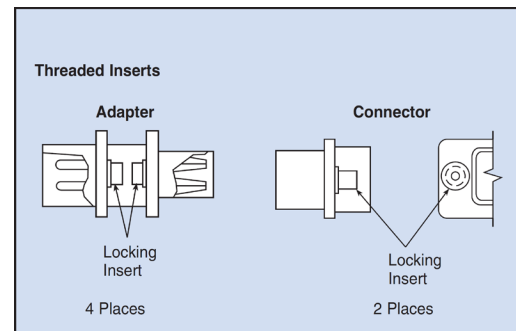
Available on Series 600 & 700 connectors.

- Solder dipped tails added standard gold flash.

Water Block

Consult APITech engineers for specifics.

- Internally sealed in accordance with NEMA Standard Rain Test section 6.4 (also UL50 part 28 ram test submersion, section 6.10.1.



Dimensions in inches (mm)