

For designs requiring even smaller connector packages, Spectrum Control offers a line of filtered Micro D-subminiature connectors. These connectors provide reliable filtering in several sizes and termination configurations. Spectrum Control has a Micro D-sub connector to meet even the tightest space constraints.



Features

- Lightweight construction for reduced system weight
- Compact, space-saving design
- Environmentally sealed contact area when fully mated
- Corrosion-resistant materials and construction
- Durable design rated for at least 500 mating cycles
- Superior electrical performance and reliability
- RoHS-compliant materials and construction
- 0.050-inch contact spacing
- Planar capacitor filtering

Mechanical Specifications

Shell	Aluminum, electroless nickel plated 500 μ in (12.7 μ m) minimum
Insulator	High temperature plastic, flammability UL94V-0
Contacts	Copper alloy, gold plated 50 μ in (1.27 μ m) minimum
Potting	Flammability UL94V-0
Interfacial Seal	Silicone

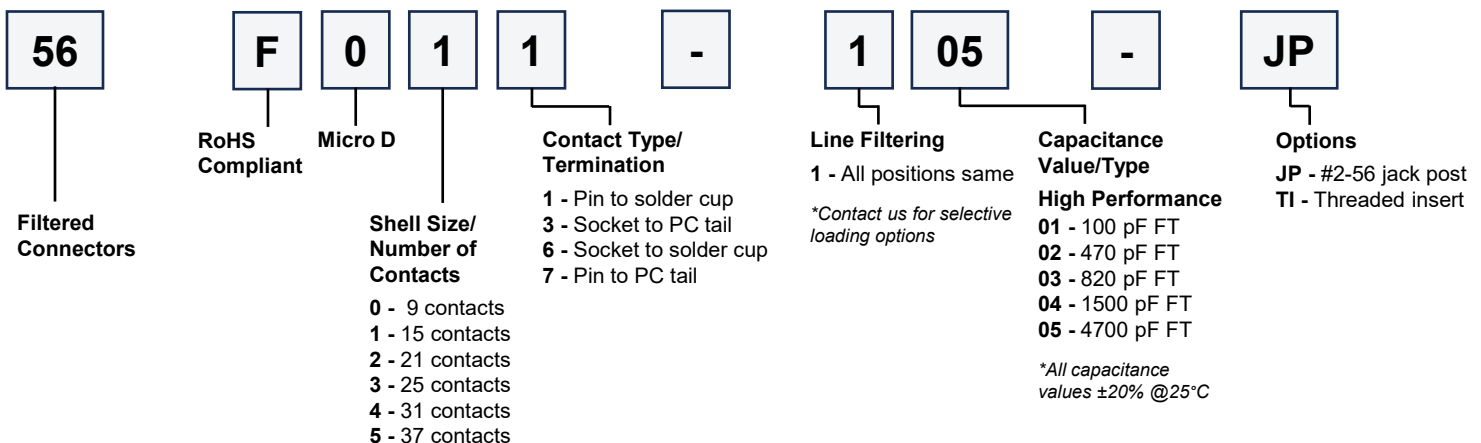
Electrical Specifications

Working Voltage (-55°C to 125°C)	100 VDC
Dielectric Withstanding Voltage	300 VDC
Current Rating	3 Amps
Insulation Resistance	5G ohms minimum @ 100 VDC

Ordering Information

Example: 56F011-105-JP

This part number represents a 15-contact Micro-D connector with a pin-to-solder-cup configuration. All lines are filtered with the same capacitance value of 4,700 pF (FT). The connector includes an optional #2-56 jack post.



High-Performance Connectors

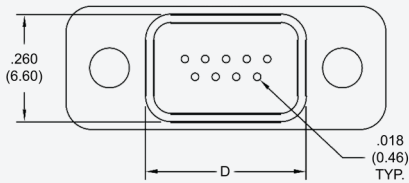
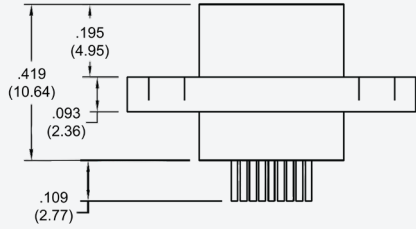
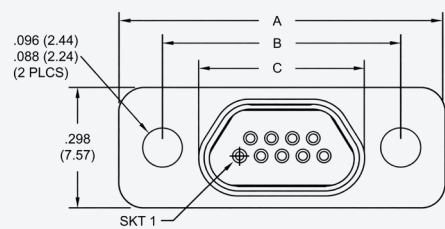
Filter Designation	Type	Capacitance		Dielectric Withstanding Voltage	Working Voltage DC - 55°C to +125°C	Minimum Insertion Loss - Decibels (dB) 50-ohm system per MIL-STD-220 (no load)							
		Value	Tolerance			5 MHz	10 MHz	20 MHz	50 MHz	100 MHz	200 MHz	500 MHz	1 GHz
01	FT	100 pF	±20%	300V	100V	-	-	-	-	1	6	14	20
02	FT	470 pF	±20%	300V	100V	-	-	2	8	14	20	28	34
03	FT	820 pF	±20%	300V	100V	-	2	6	13	19	25	33	39
04	FT	1500 pF	±20%	300V	100V	-	5	10	18	24	30	38	44
05	FT	4700 pF	±20%	300V	100V	8	14	20	28	34	40	48	54

Size	A	B	C (RCPT)	C (Plug)	D
9	.775 (19.69)	.565 (14.35)	.388 (9.86)	.330 (8.38)	.390 (9.91)
15	.925 (23.50)	.715 (18.16)	.538 (13.67)	.480 (12.19)	.540 (13.72)
21	1.075 (27.31)	.865 (21.97)	.688 (17.48)	.630 (16.00)	.690 (17.53)
25	1.175 (29.85)	.965 (24.51)	.788 (20.02)	.730 (18.54)	.790 (20.07)
31	1.325 (33.66)	1.115 (28.32)	.938 (23.83)	.880 (22.35)	.940 (23.88)
37	1.475 (37.47)	1.265 (32.13)	1.088 (27.64)	1.030 (26.16)	1.090 (27.69)

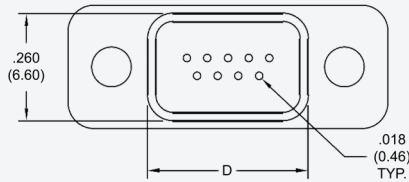
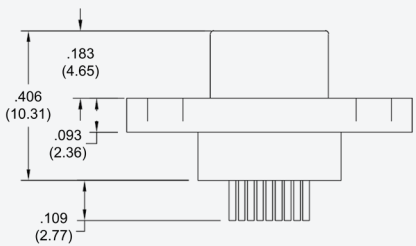
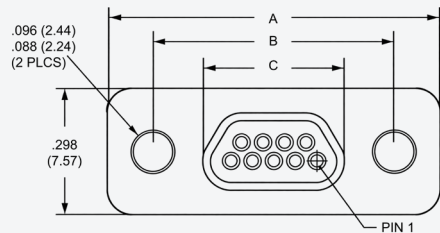
Dimensions in inches (mm)

Vertical PCB

Receptacle



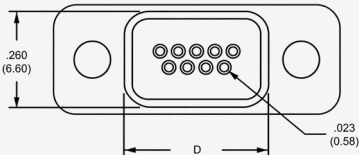
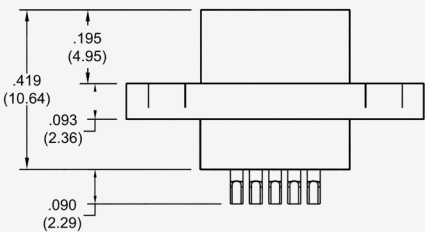
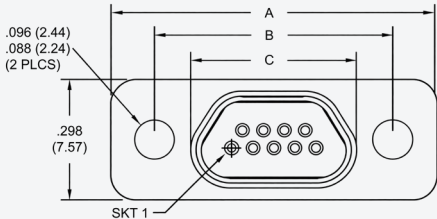
Plug



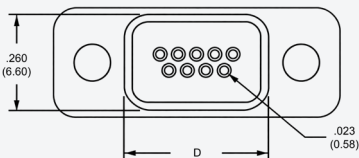
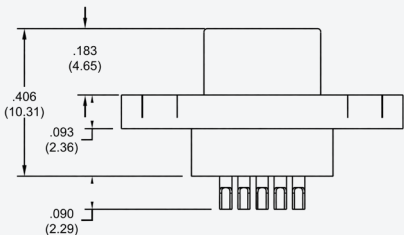
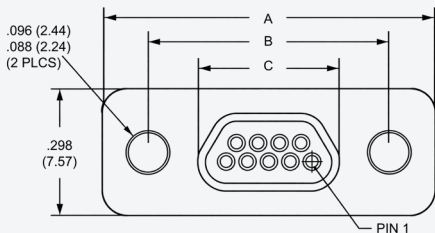
High-Performance Connectors

Solder Cup

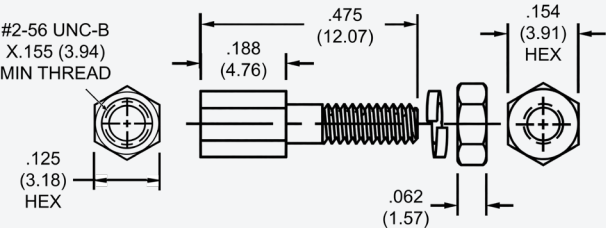
Receptacle



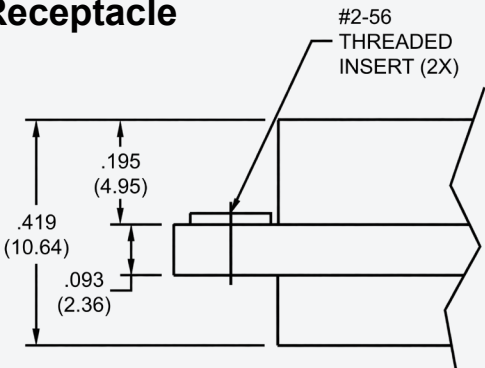
Plug



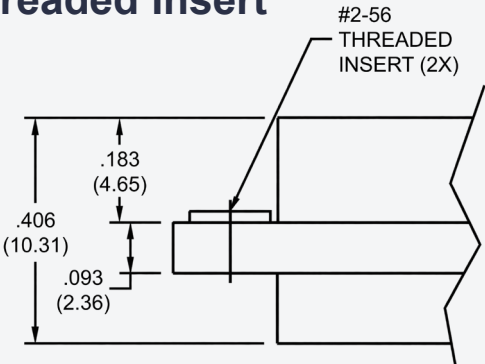
JP - #2-56 Jack Post
M83513/05-07



TI – Threaded Insert
Receptacle



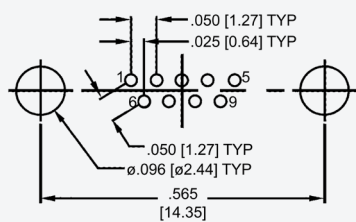
TI – Threaded Insert
Plug



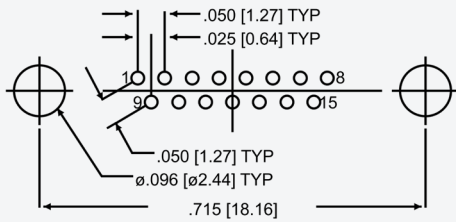
Vertical PCB Layouts

Pin Connector Shown

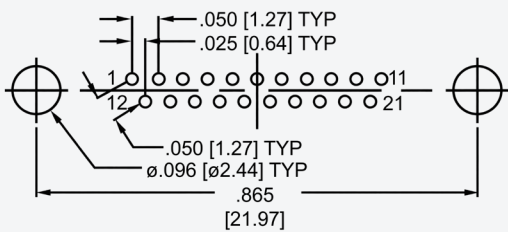
9 Contacts



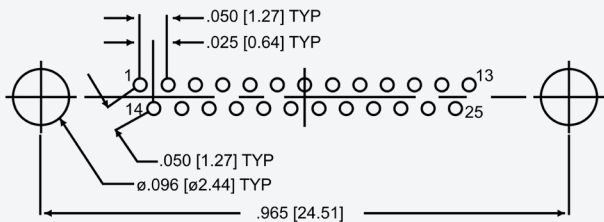
15 Contacts



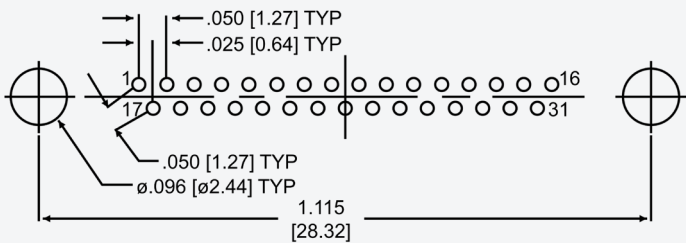
21 Contacts



25 Contacts



31 Contacts



37 Contacts

