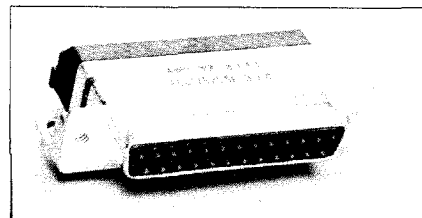


FCC 17 Series

Electrical Technical Data

Filter Characteristics:	See "Filter Electrical Technical Data"
Current Rating:	5 Amps DC maximum 2 Amps RF filtering maximum
Contact Resistance:	10 milliohms maximum per MIL-STD-1344 Method 3002
Insulation Resistance:	3000 Megaohms minimum per MIL-STD-1344 Method 3003.1

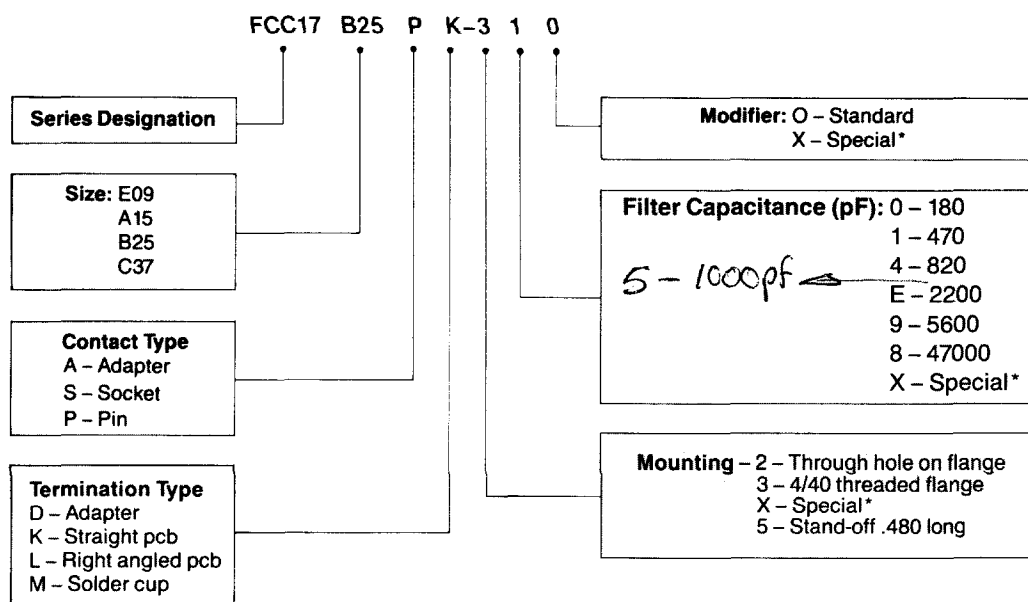


Mechanical Technical Data

Materials:	Shell: High strength zinc diecast Contacts: Copper Alloy Inserts: High strength thermoplastic material* *Comply with UL flammability requirements of 94V-O as per UL-STD-94.
Finish:	Shell: Bright tin plating Contacts: 20 microinch gold plating on contact area and 100 microinch tin plating at termination end all over 40 microinch nickel plating.
Environmental:	Operating Temperature: -40°C to + 85°C Temperature Cycling: To method 1003 of MIL-STD-1344 test condition A Humidity: To method 1002 of MIL-STD-1344, type I, test condition C Vibration: To method 2005 of MIL-STD-1344, test condition III Durability: 200 cycles minimum per MIL-STD-1344 method 2016 Designed to provide EIA RS-232 and RS-449 compatibility. Intermateable with standard non-filtered Amphenol 17 Series D-Subs and connectors meeting MIL-C-24308.

How To Order

FCC 17 Series Filtered Connectors



*Special designs are available to suit your application including different capacitance values, voltage ratings and mounting hardware. Consult factory for details.

Filtering Performance

FCC 17 and FCC 57 Series *Minimum* Insertion Loss (dB)

(Measured Per MIL-STD-220, no load)

Low Capacitance																
Frequency (MHz)	1	3	5	10	20	30	40	50	60	70	80	90	100	200	300	1000
Minimum Insertion Loss (dB)																
180 pf	0	0	0	0	0	1	2	4	5	7	8	10	12	27	30	32
470 pf	0	0	1	2	3	5	8	11	13	15	18	20	22	30	32	32
820 pf	0	0	1	3	7	10	13	16	19	22	24	27	30	32	32	32
1000 pf	0	0	1	3	7	10	13	16	19	22	24	27	30	32	32	32
High Capacitance																
Frequency (MHz)	.1	.3	.5	1	3	5	10	20	30	50	70	100	200	300	1000	
Minimum Insertion Loss (dB)																
2200 pf	0	0	0	1	2	5	8	13	16	23	27	32	32	32	32	
5600 pf	0	1	3	5	9	11	16	22	26	32	32	32	32	32	32	
47000 pf	8	11	15	20	25	27	32	32	32	32	32	32	32	32	32	

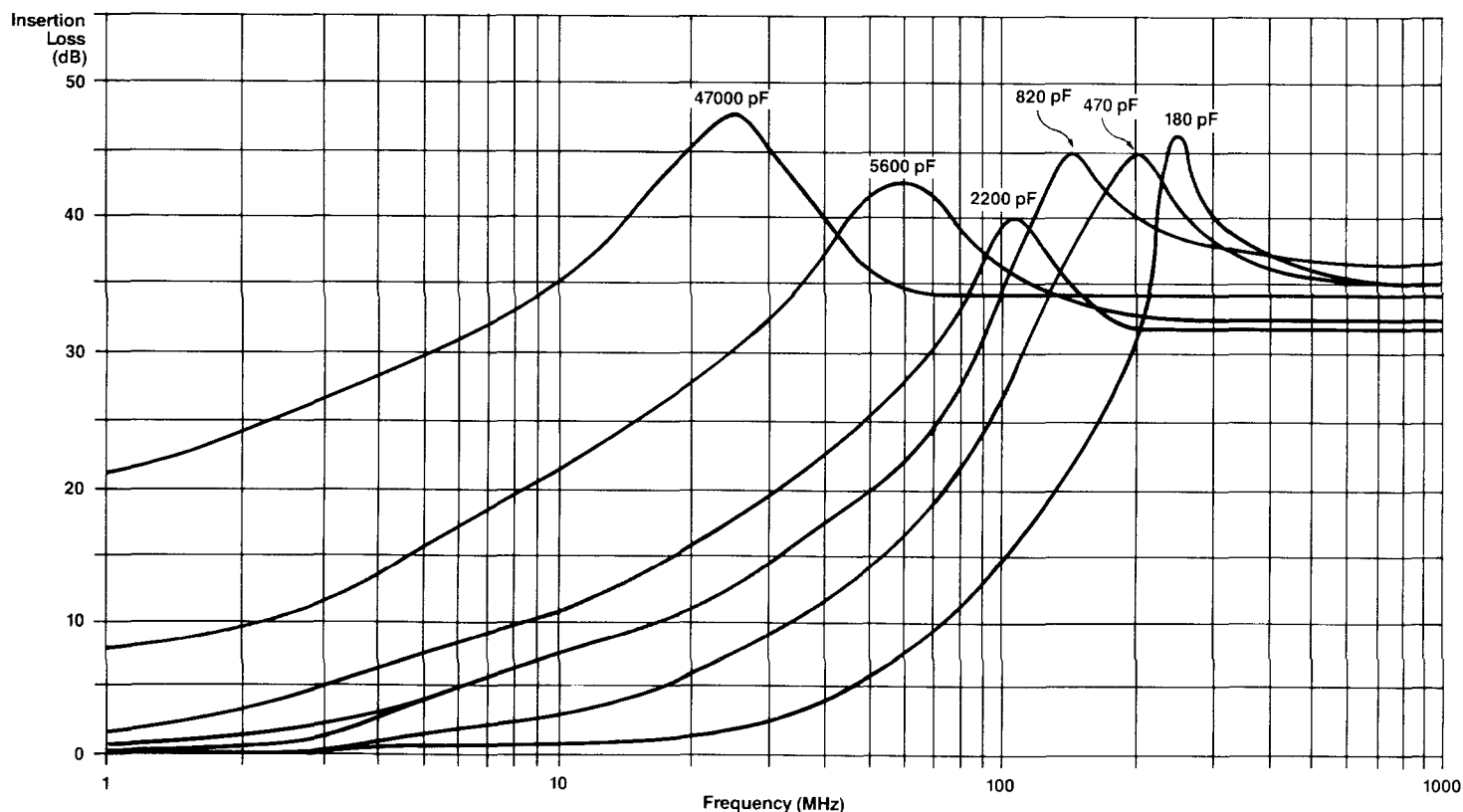
FCC 17 and FCC 57 Series Filter Electrical Technical Data

(Measured Per MIL-STD-220, no load)

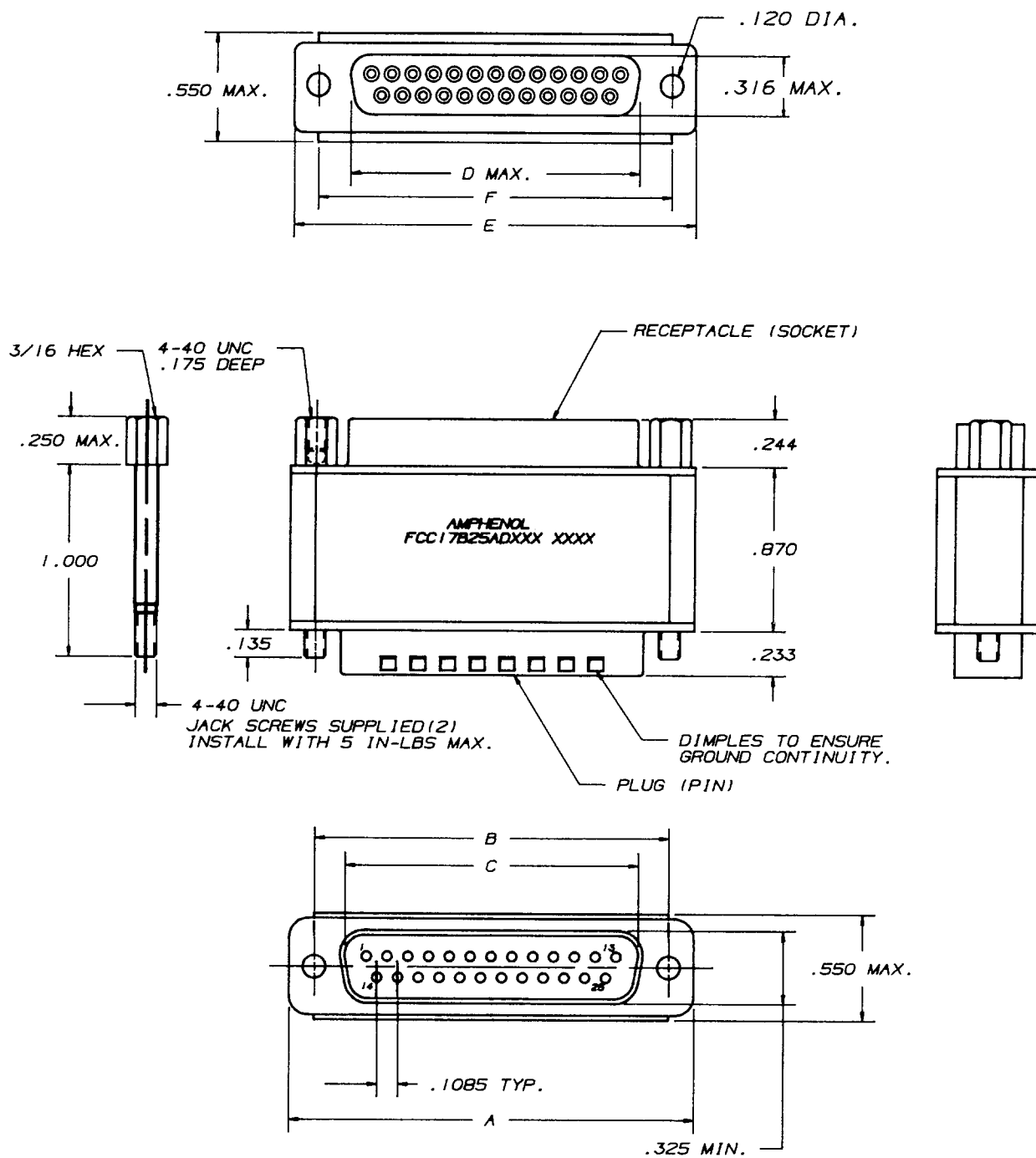
Capacitance @ 1 KHz (pF)	Dielectric Material	Dissipation Factor (%)	Capacitance Tolerance	Working Voltage (DC)	DWV Withstand	Voltage Spike 1 μ s rise time
180,470	NPO	0.2	$\pm 15\%$	300	600	700
820	NPO	0.2	$\pm 15\%$	200	600	700
1000,2200	X7R	2.5	$\pm 15\%$	200	600	700
5,600	X7R	2.5	$\pm 15\%$	200	600	700
47,000	X7R	2.5	$\pm 20\%$	50	150	500

FCC 17 and FCC 57 Series *Typical* Insertion Loss (dB)

(Measured Per MIL-STD-220, no load)



FCC 17 Pin To Socket Adapter



SIZE	A max.	B ±.005	C min.	D max.	E max.	F ±.005
9	1.240	0.984	0.663	0.648	1.240	0.984
15	1.568	1.312	.991	0.976	1.568	1.312
25	2.115	1.852	1.531	1.516	2.115	1.852
37	2.756	2.500	2.179	2.164	2.756	2.500