



240-078

Rear Panel Mount Micro-D Filter Connectors Condensed Board Right Angle Type



Glenair Filtered Right Angle Micro-D's provide EMI solutions in a miniaturized M83513 Micro-D connector. These connectors feature ceramic capacitor planar arrays and ferrite inductors.

Choose Pi or C Filter Arrays in eight filter classes and six layouts. Glenair filtered Micro-D connectors comply with applicable MIL-DTL-83513 requirements and are 100% intermateable with standard connectors.

.100" x .100" Board Spacing - These connectors are similar to "CBR" style Micro-D's and share the same board footprint, allowing retrofit to existing boards.

How To Order Micro-D Filtered Right Angle PCB

Sample Part Number	240-078	-2	-25	S	C	F	-R1	T	-.110	N	N
Series	240-078										
Shell Finish	Aluminum Shell 1 - Cadmium 2 - Nickel 5 - Gold 6 - Chem Film 33 - Nickel/PTFE										
Contact Layout	9, 15, 21, 25, 31, 37 (See Table II)										
Contact Type	P - Pin S - Socket										
Filter Type	C - C Filter P - Pi Filter										
Filter Class	A, B, C, D, E, F, G, J (See Table I)										
Hardware Option	Rear Panel Mount Hardware Option (See Note 1) R1 - 0.032" (0.8) Panel R2 - 0.047" (1.2) Panel R3 - 0.062" (1.6) Panel R4 - 0.093" (2.4) Panel R5 - 0.125" (3.2) Panel R6 - 0.080" (2.0) Panel										
Insert	T - Threaded insert in board mount hole N - No threaded insert										
Lead Length	.080 .110 .125 .140 .150 .172 .190 .250										
Plug EMI Ground Spring	G - Ground spring installed N - No ground spring (N applies to all receptacle assemblies) (See Note 2)										
O-Ring	C - Conductive N - Non-Conductive (Nitrile)										

Specific Dimensions per Filter Type

Shell Size	C FILTER						PI FILTER					
	G MAX		H ± .010		J ± .010		G MAX		H ± .010		J ± .010	
	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.
9P	0.865	21.97	0.440	11.18	0.460	11.68	1.205	30.61	0.740	18.80	0.760	19.30
9S	0.865	21.97	0.440	11.18	0.460	11.68	1.205	30.61	0.740	18.80	0.760	19.30
15P	0.865	21.97	0.340	8.64	0.460	11.68	1.205	30.61	0.640	16.26	0.760	19.30
15S	0.865	21.97	0.340	8.64	0.460	11.68	1.205	30.61	0.640	16.26	0.760	19.30
21P	0.865	21.97	0.340	8.64	0.460	11.68	1.205	30.61	0.640	16.26	0.760	19.30
21S	0.865	21.97	0.340	8.64	0.460	11.68	1.205	30.61	0.640	16.26	0.760	19.30
25P	0.865	21.97	0.340	8.64	0.460	11.68	1.205	30.61	0.640	16.26	0.760	19.30
25S	0.865	21.97	0.340	8.64	0.460	11.68	1.205	30.61	0.640	16.26	0.760	19.30
31P	0.960	24.38	0.340	8.64	0.460	11.68	1.300	33.02	0.640	16.26	0.760	19.30
31S	0.960	24.38	0.340	8.64	0.460	11.68	1.300	33.02	0.640	16.26	0.760	19.30
37P	0.960	24.38	0.340	8.64	0.460	11.68	1.300	33.02	0.640	16.26	0.760	19.30
37S	0.960	24.38	0.340	8.64	0.460	11.68	1.300	33.02	0.640	16.26	0.760	19.30
51P	1.090	27.69	0.360	9.14	0.510	12.95	1.440	36.58	0.660	16.76	0.810	20.57
51S	1.090	27.69	0.360	9.14	0.510	12.95	1.440	36.58	0.660	16.76	0.810	20.57

Rev. Oct. 14 2015

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High Performance Micro-D Connectors and Cables

U.S. CAGE Code 06324

Printed in U.S.A.

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Micro-D Filter

Table II: Dimensional Table Dimensional Table



Shell Size	A MAX		B ± .003		C MAX		D MAX		E MAX		F ± .004		K MAX		L MAX		M MAX	
	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.
9P	0.965	24.51	0.565	14.35	0.333	8.46	0.184	4.67	0.485	12.32	0.183	4.65	0.335	8.51	0.310	7.87	.790	20.07
9S	0.965	24.51	0.565	14.35	0.400	10.16	0.250	6.35	0.485	12.32	0.195	4.95	0.335	8.51	0.310	7.87	.790	20.07
15P	1.115	28.32	0.715	18.16	0.483	12.27	0.184	4.67	0.485	12.32	0.183	4.65	0.335	8.51	0.310	7.87	.940	23.88
15S	1.115	28.32	0.715	18.16	0.551	14.00	0.250	6.35	0.485	12.32	0.195	4.95	0.335	8.51	0.310	7.87	.940	23.88
21P	1.265	32.13	0.865	21.97	0.633	16.08	0.184	4.67	0.485	12.32	0.183	4.65	0.335	8.51	0.310	7.87	1.090	27.69
21S	1.265	32.13	0.865	21.97	0.701	17.81	0.250	6.35	0.485	12.32	0.195	4.95	0.335	8.51	0.310	7.87	1.090	27.69
25P	1.365	34.67	0.965	24.51	0.733	18.62	0.184	4.67	0.485	12.32	0.183	4.65	0.335	8.51	0.310	7.87	1.190	30.23
25S	1.365	34.67	0.965	24.51	0.801	20.35	0.250	6.35	0.485	12.32	0.195	4.95	0.335	8.51	0.310	7.87	1.190	30.23
31P	1.515	38.48	1.115	28.32	0.883	22.43	0.184	4.67	0.485	12.32	0.183	4.65	0.430	10.92	0.310	7.87	1.340	34.04
31S	1.515	38.48	1.115	28.32	0.951	24.16	0.250	6.35	0.485	12.32	0.195	4.95	0.430	10.92	0.310	7.87	1.340	34.04
37P	1.665	42.29	1.265	32.13	1.033	26.24	0.184	4.67	0.485	12.32	0.183	4.65	0.430	10.92	0.310	7.87	1.490	37.85
37S	1.665	42.29	1.265	32.13	1.101	27.97	0.250	6.35	0.485	12.32	0.195	4.95	0.430	10.92	0.310	7.87	1.490	37.85
51P	1.665	42.29	1.215	30.86	1.033	26.24	0.224	5.69	0.530	13.46	0.183	4.65	0.560	14.22	0.394	10.01	1.440	36.58
51S	1.665	42.29	1.215	30.86	1.101	27.97	0.293	7.44	0.530	13.46	0.195	4.95	0.560	14.22	0.394	10.01	1.440	36.58

Table I: Micro-D Filter Classes and Performance

Filter Class	A	B	C	D	E	F	G	J
Capacitance (pF)								
C Filter	19000-28000	16000-22500	9000-16500	4000-6000	1650-2500	400-650	200-300	35-60
Pi Filter	38000-56000	32000-45000	18000-33000	8000-12000	3300-5000	800-1300	400-600	70-120

Notes

- Mounting holes fitted with 2x .086-56 threaded insert, .15 min thread. (T3585-02CPF129).
- Ground spring not available on cadmium plated assemblies.
- Interface dimensions per MIL-DTL-83513.
- Electrical performance:
I.R.: 5000 Megohms min at 100 VDC
D.W.V.: 200 VDC
- Assembly to be identified with Glenair's name, part number, date code, and pin 1 identification.
- See 240-034 for PCB layout

Materials / Finishes:

- Shell - Aluminum Alloy/See Chart
- Insulator - LCP/NA
- Contacts - Copper Alloy/Gold Plated
- Ground Spring - Stainless Steel/Gold Plated
- Socket Interfacial Seal: Fluorosilicone