



## Micro-D MWDM-BR Right Angle Thru-Hole Printed Circuit Board Connectors



**High Performance** – These connectors feature gold-plated TwistPin contacts for best performance. PC tails are .020 inch diameter. Specify nickel-plated shells or cadmium plated shells for best availability.

**Solder-Dipped** – Terminals are coated with Sn60/Pb40 tin-lead solder for best solderability. Optional gold-plated terminals are available for RoHS compliance.

**Rear Mountable** – Can be installed through panels up to .125 inch thick. Specify rear panel mount jackposts.

### How To Order Micro-D BR Style Board Mount Connectors

Sample Part Number	MWDM	2	L	-15	P	BR	R3	T	-.110	513
<b>Series</b>	MWDM Glenair Micro-D									
<b>Shell Material and Finish</b>	Aluminum Shell		Stainless Steel Shell							
	1 - Cadmium		2 - Nickel		3 - Passivated					
	4 - Black Anodize									
	5 - Gold 6 - Chem Film									
<b>Insulator Material</b>	L - LCP or PPS									
	LCP - 30% Glass-filled liquid crystal polymer									
	PPS - 40% Glass-filled polyphenylene sulfide									
<b>Contact Layout</b>	9, 15, 21, 25, 31, 37, 51, 100 (See Table II)									
<b>Contact Type</b>	P - Pin S - Socket									
<b>Termination Type</b>	BR - Board Right Angle									
<b>Jackpost Option</b>	Omit for None		P - Jackpost		Jackposts for Rear Panel Mounting					
	(See Table I)				R1 - .032" Panel		R2 - .047" Panel		R3 - .062" Panel	
					R4 - .093" Panel		R5 - .125" Panel		R6 - .080" Panel	
<b>Threaded Insert Option</b>	T - Threaded Insert In Board Mount Hole Omit - for Thru-Hole									
<b>Terminal Length (Inches)</b>	.080, .110, .125, .140, .150, .172, .190, .250 Length in Inches ± .015 (0.38) (See Table II)									
<b>Gold-Plated Terminal Mod Code</b>	These connectors are solder-dipped in 60/40 tin-lead solder. To delete the solder dip and change to gold-plated terminals, add code 513									

Table I: Jackpost Options

No Designator	P	R1 Thru R6
<p>THREADED INSERT</p>		<p>Panel</p>
<p><b>Thru-Hole</b> For use with Glenair jackposts only. Order hardware separately. Install with threadlocking compound.</p>	<p><b>Standard Jackpost</b> Factory installed, not intended for removal.</p>	<p><b>Jackpost for Rear Panel Mounting</b> Shipped loosely installed. Install with permanent threadlocking compound.</p>

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Micro-D PCB

Table II: Dimensions



2 X PCB MTNG HOLES  
9-51 CONTACTS .096 ± .005 (2.43 ± 0.13)  
100 CONTACTS .125 ± .005 (23.18 ± 0.13)

Layout	A Max.		B		C Max.		D Max.		E Max.		F		G Max.		H		J		K	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
9P	1.390	35.31	.565	14.35	.333	8.46	.184	4.67	.310	7.87	1.150	29.21	.465	11.81	.183	4.65	.125	3.18	.150	3.81
9S	1.390	35.31	.565	14.35	.400	10.16	.250	6.35	.310	7.87	1.150	29.21	.465	11.81	.195	4.95	.125	3.18	.150	3.81
15P	1.540	39.12	.715	18.16	.483	12.27	.184	4.67	.310	7.87	1.300	33.02	.465	11.81	.183	4.65	.125	3.18	.150	3.81
15S	1.540	39.12	.715	18.16	.551	14.00	.250	6.35	.310	7.87	1.300	33.02	.465	11.81	.195	4.95	.125	3.18	.150	3.81
21P	1.690	42.93	.865	21.97	.633	16.08	.184	4.67	.310	7.87	1.450	36.83	.465	11.81	.183	4.65	.125	3.18	.150	3.81
21S	1.690	42.93	.865	21.97	.701	17.81	.250	6.35	.310	7.87	1.450	36.83	.465	11.81	.195	4.95	.125	3.18	.150	3.81
25P	1.790	45.47	.965	24.51	.733	18.62	.184	4.67	.310	7.87	1.550	39.37	.465	11.81	.183	4.65	.125	3.18	.150	3.81
25S	1.790	45.47	.965	24.51	.801	20.35	.250	6.35	.310	7.87	1.550	39.37	.465	11.81	.195	4.95	.125	3.18	.150	3.81
31P	2.040	51.82	1.115	28.32	.883	22.43	.184	4.67	.310	7.87	1.800	45.72	.465	11.81	.183	4.65	.125	3.18	.150	3.81
31S	2.040	51.82	1.115	28.32	.951	24.16	.250	6.35	.310	7.87	1.800	45.72	.465	11.81	.195	4.95	.125	3.18	.150	3.81
37P	2.340	59.44	1.265	32.13	1.033	26.24	.184	4.67	.310	7.87	2.100	53.34	.465	11.81	.183	4.65	.125	3.18	.150	3.81
37S	2.340	59.44	1.265	32.13	1.101	27.96	.250	6.35	.310	7.87	2.100	53.34	.465	11.81	.195	4.95	.125	3.18	.150	3.81
51P	1.875	47.63	1.215	30.86	.983	24.97	.228	5.79	.351	8.92	1.600	40.64	.565	14.35	.183	4.65	.125	3.18	.150	3.81
51S	1.875	47.63	1.215	30.86	1.051	26.70	.296	7.52	.351	8.92	1.600	40.64	.565	14.35	.195	4.95	.125	3.18	.150	3.81
100P	2.780	70.60	1.800	45.72	1.383	35.13	.270	6.86	.394	10.01	2.500	63.50	.765	19.43	.183	4.65	.225	5.72	.150	3.81
100S	2.780	70.60	1.800	45.72	1.451	36.86	.333	8.46	.394	10.01	2.500	63.50	.765	19.43	.195	4.95	.225	5.72	.150	3.81

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC Sea level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resist.	32 Milliohms Maximum
Magnetic Permeability	2 μ Maximum
Operating Temperature	-55° C. to +150° C.
Shock, Vibration	50 g., 20g.
Mating Force	(10 Ounces) X (# of Contacts)

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP)/ Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold Over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Resin Hysol EE4215



# Micro-D MWDM-BR Right Angle Thru-Hole Printed Circuit Board Connectors

## MICRO-D BR Board Mount Connector PCB Layouts – Pin Connectors

Patterns shown are for connector mounting side of PC board. 9 Thru 51 Contacts .096 (2.44) Diameter Mounting Holes, 100 Pin .125 (3.18) Diameter



**9 PIN**



**51 PIN**



**15 PIN**



**31 PIN**



**21 PIN**



**25 PIN**



**37 PIN**



**100 PIN**

## MICRO-D BR Board Mount Connector PCB Layouts – Socket Connectors

Patterns shown are for connector mounting side of PC board. 9 Thru 51 Contacts .096 (2.44) Diameter Mounting Holes, 100 Pin .125 (3.18) Diameter



**9 SOCKET**



**51 SOCKET**



**15 SOCKET**



**31 SOCKET**



**21 SOCKET**



**25 SOCKET**



**37 SOCKET**



**100 SOCKET**