

Low Profile Metal and Plastic Shell  
Micro-D MWDL Plastic Shell  
Right Angle PCB



Micro-D  
Double and  
Triple Row

Low Profile MWDL Plastic Shell Micro-D Right Angle Printed Circuit Board



MWDL-25PCBRP-.110

Low profile MWDL connectors have reduced flange height compared to standard MWDM Micro-D connectors. These thru-hole "CBR" style Micro-D connectors have gold-plated PC tails on .100" centers. Connectors are backfilled with epoxy. Pin contacts are gold-plated high performance TwistPin type and are recessed into insulator to prevent damage. Socket contacts are gold plated, machined copper alloy. Stainless steel hardware. Optional #2-56 threaded inserts in board mounting holes. Glass-filled LCP thermoplastic insulators and tray withstand immersion in +260C solder for 10 seconds. Meets performance requirements of MIL-DTL-83513. Available with 9 to 51 contacts. 3 A., 600 Vac, -55°C to +150°C.

HOW TO ORDER

Sample Part Number

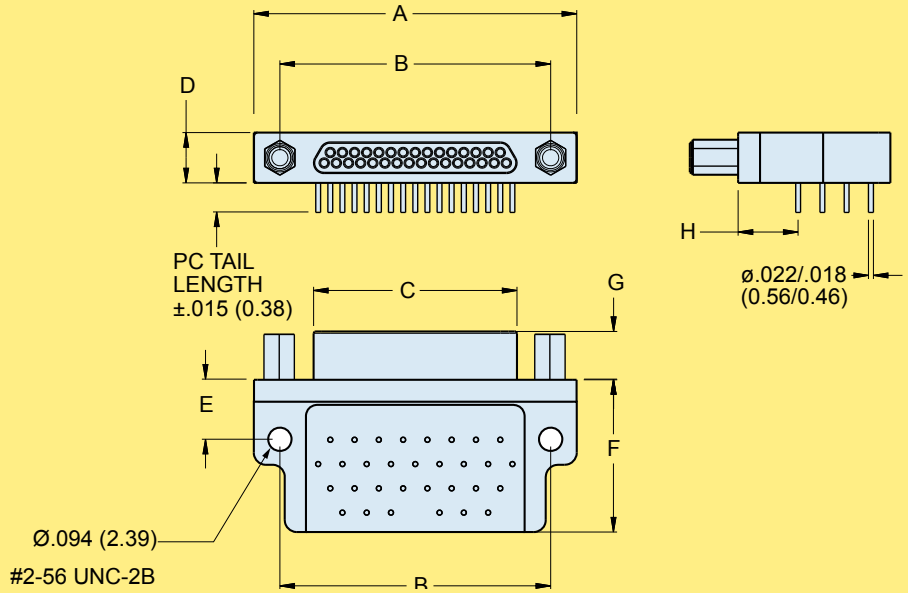
MWDL	-21	S	CBR	P		-.110
Series	No. of Contacts	Contact Type	Termination Type	Hardware Option	Threaded Insert Option	PC Tail Length
<b>MWDL</b> Low Profile Plastic Shell Micro-D	-9	<b>P</b> Pin Contacts	<b>CBR</b> Condensed Board Right Angle	<b>Omit</b> For None	<b>Omit</b> For Thru- Holes	-110
	-15					-125
	-21	<b>S</b> Socket Contacts		<b>P</b> Standard Jackpost (non- removable)	<b>T</b> Threaded Inserts in Board Mounting Holes. #2- 56 Female Thread.	-150
	-25					-190
	-31			<b>R1</b> Jackpost for Rear-Panel Mounting, .032" (0.81) Panel Thickness	<b>R2</b> Jackpost for Rear-Panel Mounting, .047" (1.19) Panel Thickness	-250
	-37					<b>R3</b> Jackpost for Rear-Panel Mounting, .062" (1.57) Panel Thickness
-51	<b>R5</b> Jackpost for Rear-Panel Mounting, .125" (3.18) Panel Thickness					

E



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### MWDL CBR DIMENSIONS



Layout	A Max.		B		C Max.		D Max.		E		F Max.		G Max.		H	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
9P	.788	20.02	.565	14.35	.292	7.42	.218	5.54	.250	6.35	.425	10.80	.202	5.13	.230	5.84
9S	.788	20.02	.565	14.35	.380	9.65	.218	5.54	.250	6.35	.425	10.80	.185	4.70	.230	5.84
15P	.938	23.83	.715	18.16	.442	11.23	.218	5.54	.250	6.35	.425	10.80	.202	5.13	.130	3.30
15S	.938	23.83	.715	18.16	.530	13.46	.218	5.54	.250	6.35	.425	10.80	.185	4.70	.130	3.30
21P	1.088	27.64	.865	21.97	.592	15.04	.218	5.54	.250	6.35	.425	10.80	.202	5.13	.130	3.30
21S	1.080	27.64	.865	21.97	.680	17.27	.218	5.54	.250	6.35	.425	10.80	.185	4.70	.130	3.30
25P	1.188	30.18	.965	24.51	.692	17.58	.218	5.54	.250	6.35	.425	10.80	.202	5.13	.130	3.30
25S	1.185	30.18	.965	24.51	.780	19.81	.218	5.54	.250	6.35	.425	10.80	.185	4.70	.130	3.30
31P	1.338	33.99	1.115	28.32	.842	21.39	.218	5.54	.250	6.35	.525	13.34	.202	5.13	.130	3.30
31S	1.338	33.99	1.115	28.32	.930	23.62	.218	5.54	.250	6.35	.525	13.34	.185	4.70	.130	3.30
37P	1.488	37.80	1.265	32.13	.992	25.20	.218	5.54	.250	6.35	.525	13.34	.202	5.13	.130	3.30
37S	1.488	37.80	1.265	32.13	1.080	27.43	.218	5.54	.250	6.35	.525	13.34	.185	4.70	.130	3.30
51P	1.438	36.53	1.215	30.86	.942	23.93	.260	6.60	.300	7.62	.660	16.76	.202	5.13	.150	3.81
51S	1.438	36.53	1.215	30.86	1.030	26.16	.260	6.60	.300	7.62	.660	16.76	.185	4.70	.150	3.81

PERFORMANCE SPECIFICATIONS	
Current Rating	3 AMP
DWV	600 VAC Sea level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Operating Temperature	-55° C. to +150° C.
Shock, Vibration	50 g., 20g.
Mating Force	(10 Ounces) X (# of Contacts)

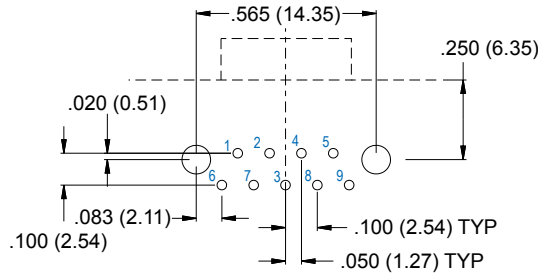
MATERIALS AND FINISHES	
Connector Body	Liquid Crystal Polymer (LCP), Glass-filled
Pin Contact	Beryllium Copper, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold Over Nickel Plating
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy

# Low Profile Metal and Plastic Shell Micro-D MWDL Plastic Shell Right Angle PCB

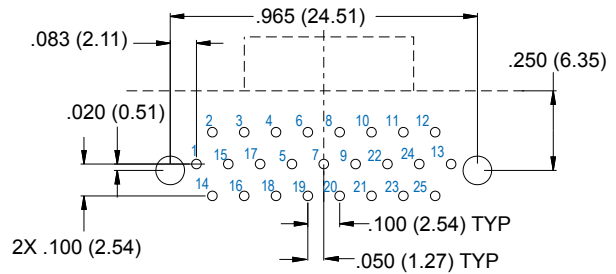


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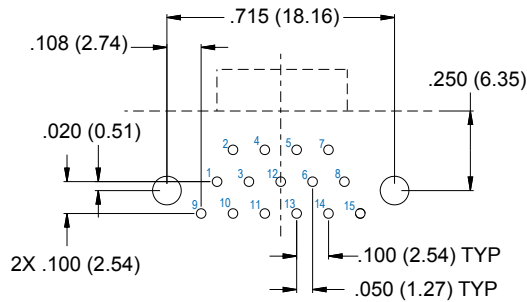
## MWDL CBR PCB LAYOUTS — PIN CONNECTORS



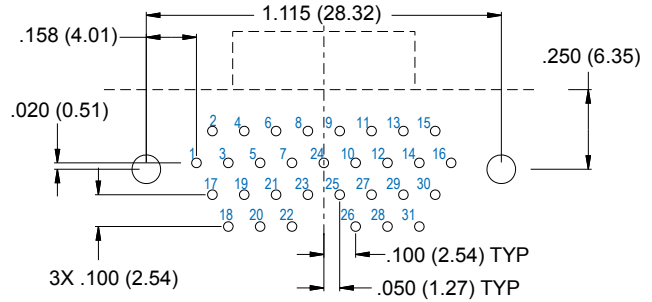
**9 PIN**



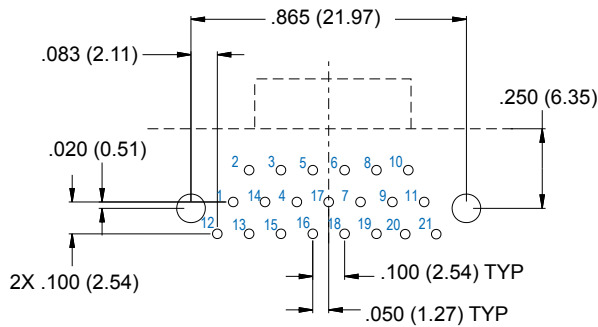
**25 PIN**



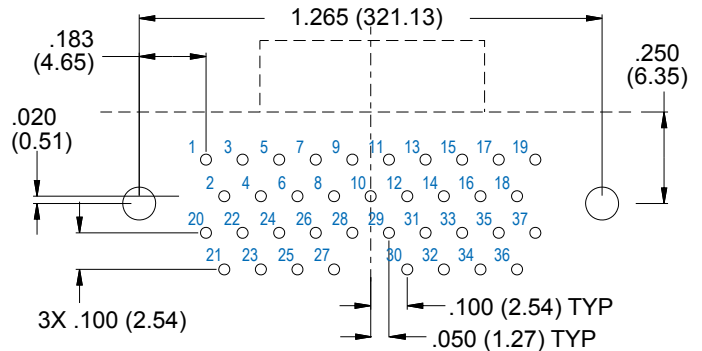
**15 PIN**



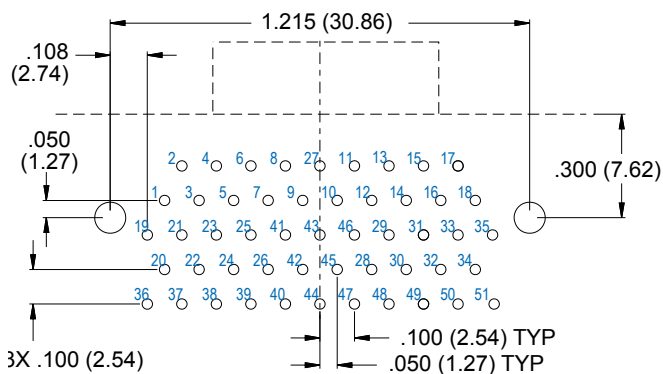
**31 PIN**



**21 PIN**



**37 PIN**

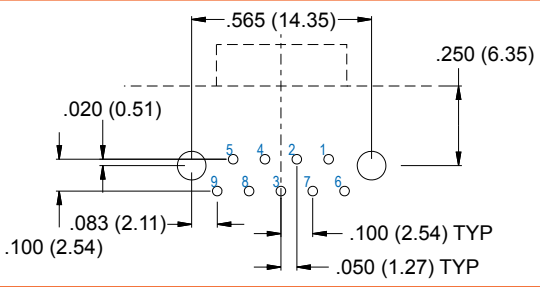


**51 PIN**

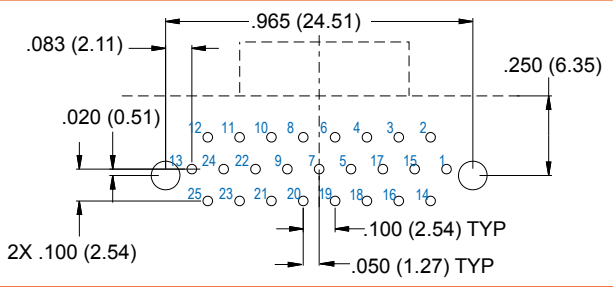
### Notes

1. Patterns shown are for connector mounting side of PCB board.
2. Board mounting holes are .094" (2.39) diameter.
3. PC tails are .022" (0.56) maximum diameter.

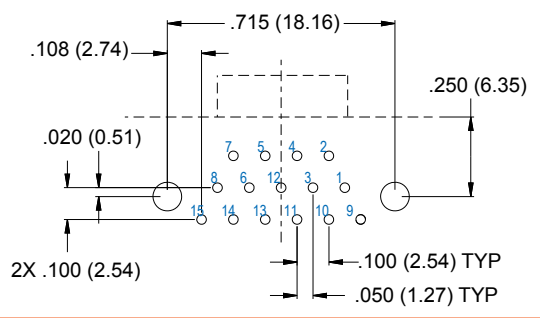
**MLDM CBR PCB LAYOUTS — SOCKET CONNECTORS**



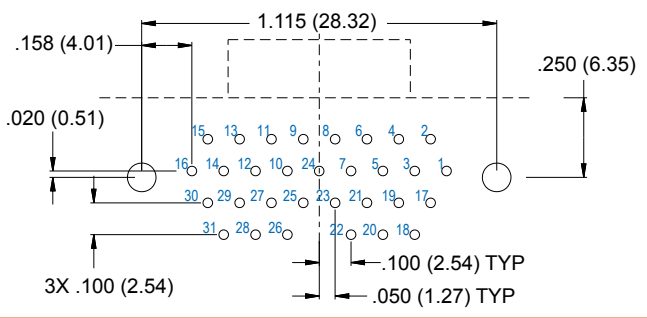
**9S**



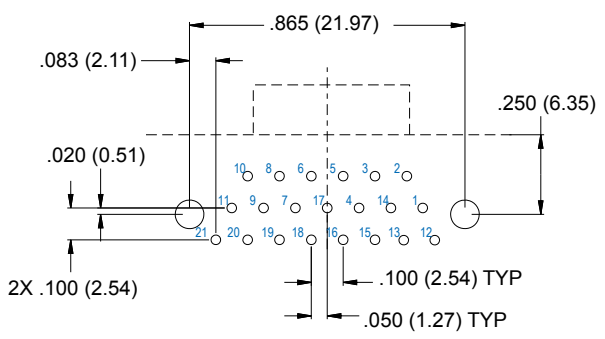
**25S**



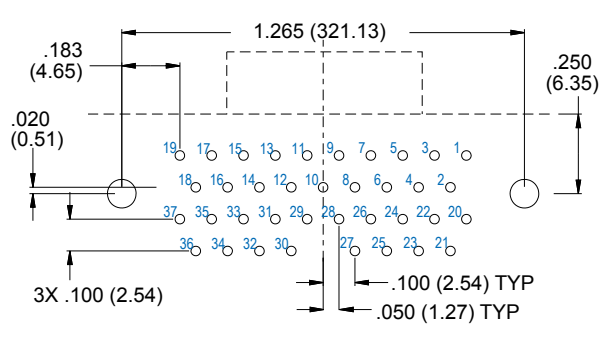
**15S**



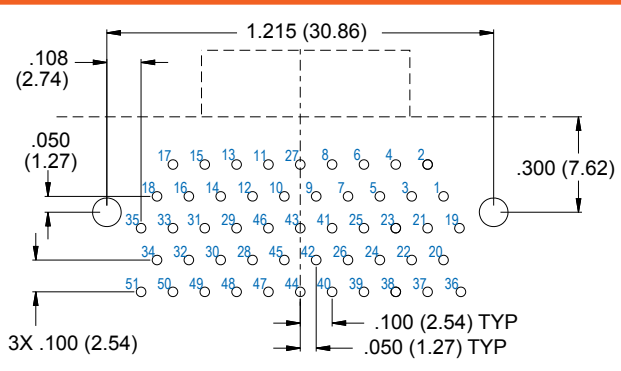
**31S**



**21S**



**37S**



**51S**

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