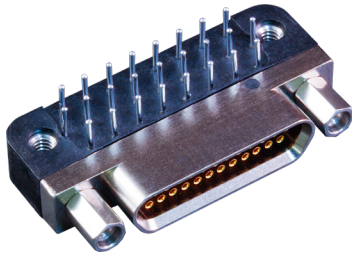


MLDM Low Profile Metal Shell Micro-D Right Angle PCB Termination



Micro-D Double
and Triple Row



MLDM2L-25SCBRPT-110

Low profile MLDM 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. Gold-plated PC tails. Machined aluminum shell, stainless steel hardware. Optional #2-56 threaded inserts in board mounting holes. Glass-filled LCP thermoplastic insulators and tray withstand immersion in +260°C 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 Right Angle PCB Connector

How To Order Right Angle PCB Connector									
Sample Part Numbers		MLDM2L	-21	S	CBR	P	T	-.110	-513
Series	MLDM1L Low Profile Metal Shell Micro-D With Yellow Chromate Over Cadmium Finish	MLDM2L Low Profile Metal Shell Micro-D With Electroless Nickel Shell Finish							
	MLDM32L Low Profile Metal Shell Micro-D With Black Zinc Nickel Shell Finish	MLDM33L Low Profile Metal Shell Micro-D With Nickel-Fluorocarbon Shell Finish							
Contact Layout	9, 15, 21, 25, 31, 37, 51 (See Table II)								
Contact Type	P - Pin Contacts S - Socket Contacts								
Termination Type	CBR - Condensed Board Right Angle								
Hardware Option	(Omit for None)	Jackposts for Rear Panel Mounting							
	P – Jackpost (See Table I)	R1 – .032" Panel R4 – .093" Panel	R2 – .047" Panel R5 – .125" Panel	R3 – .062" Panel R6 – .125" Panel					
Threaded Insert Option	Omit - For Thru-Holes								
	T - Threaded Inserts in Board Mounting Holes. #2-56 Female Thread.								
	M - Threaded Inserts in Board Mounting Holes. M2 Metric Thread.								
PC Tail Length	-.110, -.125, -.150, -.190, -.250								
Gold-Plated Terminal Mod Code	Omit - These connectors are solder-dipped in 60/40 tin lead solder. To delete the solder dip and change to gold-plated terminal add code 513								

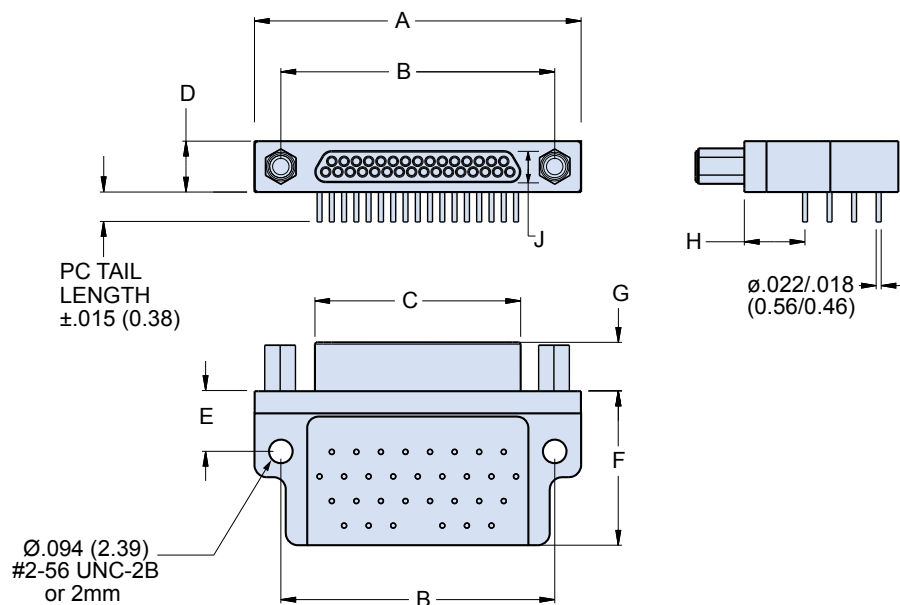
Table I: Jackpost Options

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



MLDM Low Profile Metal Shell Micro-D Right Angle PCB Termination

Table II: Dimensions



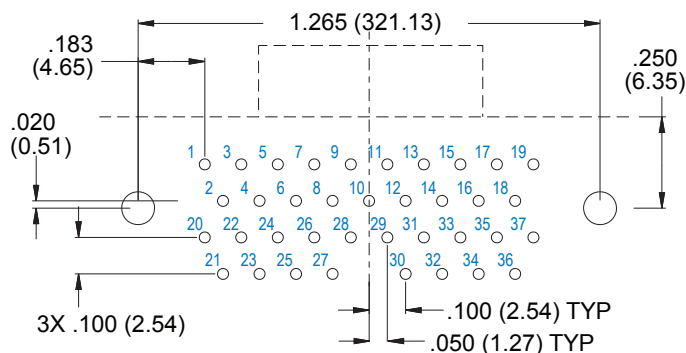
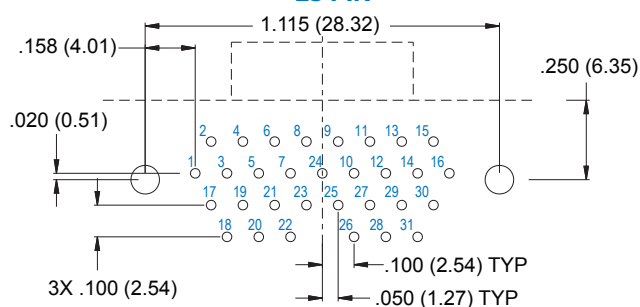
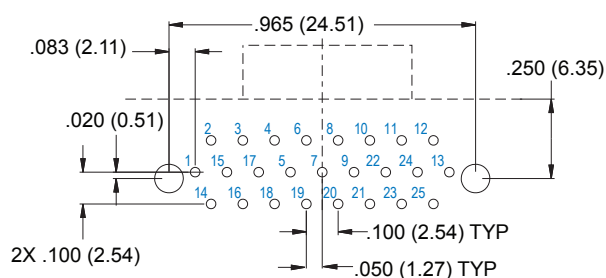
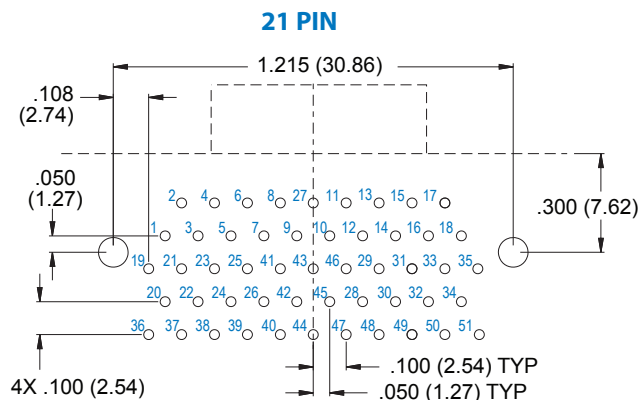
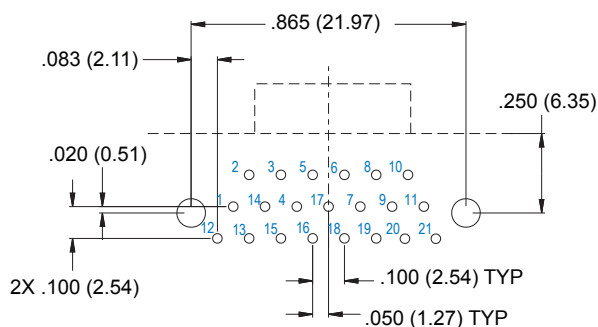
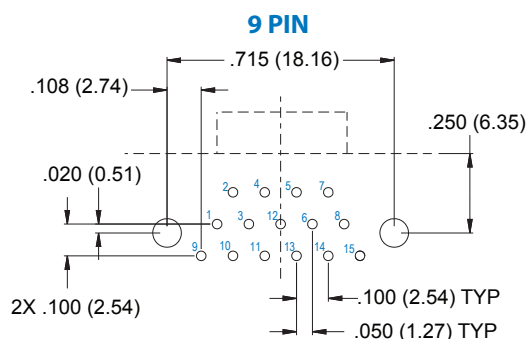
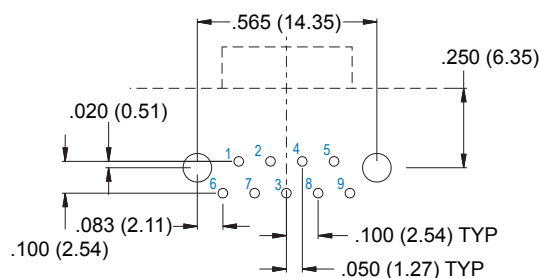
Layout	A Max.		B		C Max.		D Max.		E		F Max.		G Max.		H		J Max.	
	In.	mm.	In. ± .003	mm. ± 0.08	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In. ± .010	mm. ± 0.25	In.	mm.
9P	.788	20.02	.565	14.35	.292	7.42	.224	5.69	.250	6.35	.425	10.80	.202	5.13	.230	5.84	.134	3.40
9S	.788	20.02	.565	14.35	.380	9.65	.224	5.69	.250	6.35	.425	10.80	.185	4.70	.230	5.84	.218	5.54
15P	.938	23.83	.715	18.16	.442	11.23	.224	5.69	.250	6.35	.425	10.80	.202	5.13	.130	3.30	.134	3.40
15S	.938	23.83	.715	18.16	.530	13.46	.224	5.69	.250	6.35	.425	10.80	.185	4.70	.130	3.30	.218	5.64
21P	1.088	27.64	.865	21.97	.592	15.04	.224	5.69	.250	6.35	.425	10.80	.202	5.13	.130	3.30	.134	3.40
21S	1.088	27.64	.865	21.97	.680	17.27	.224	5.69	.250	6.35	.425	10.80	.185	4.70	.130	3.30	.218	5.64
25P	1.188	30.18	.965	24.51	.692	17.58	.224	5.69	.250	6.35	.425	10.80	.202	5.13	.130	3.30	.134	3.40
25S	1.188	30.18	.965	24.51	.780	19.81	.224	5.69	.250	6.35	.425	10.80	.185	4.70	.130	3.30	.218	5.64
31P	1.338	33.99	1.115	28.32	.842	21.39	.224	5.69	.250	6.35	.525	13.34	.202	5.13	.130	3.30	.134	3.40
31S	1.338	33.99	1.115	28.32	.930	23.62	.224	5.69	.250	6.35	.525	13.34	.185	4.70	.130	3.30	.218	5.64
37P	1.488	37.80	1.265	32.13	.992	25.20	.224	5.69	.250	6.35	.525	13.34	.202	5.13	.130	3.30	.134	3.40
37S	1.488	37.80	1.265	32.13	1.080	27.43	.224	5.69	.250	6.35	.525	13.34	.185	4.70	.130	3.30	.218	5.64
51P	1.438	36.53	1.215	30.86	.942	23.93	.268	6.81	.300	7.62	.660	16.76	.202	5.13	.150	3.81	.177	4.50
51S	1.438	36.53	1.215	30.86	1.030	26.16	.268	6.81	.300	7.62	.660	16.76	.185	4.70	.150	3.81	.260	6.60

MLDM Low Profile Metal Shell Micro-D Right Angle PCB Termination



Micro-D Double
and Triple Row

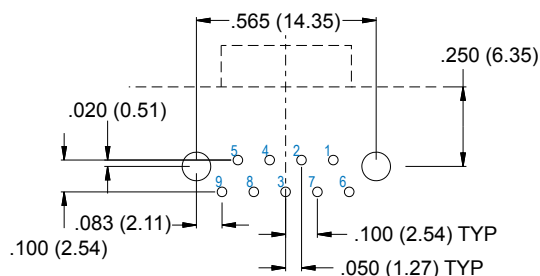
MLDM CBR PCB Layouts — Pin Connectors



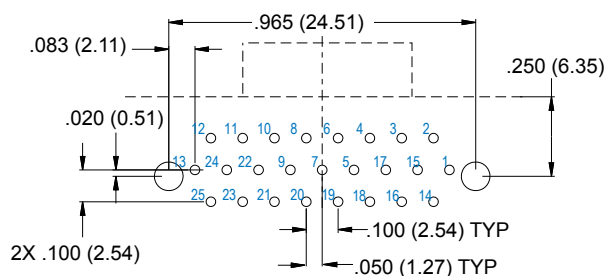
Notes

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.

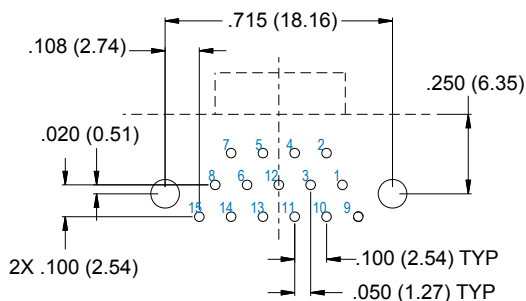
MLDM CBR PCB Layouts — Socket Connectors



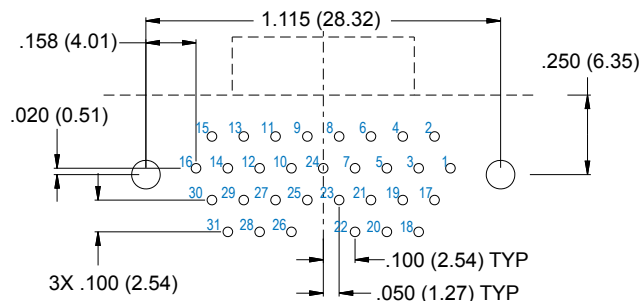
9 Socket



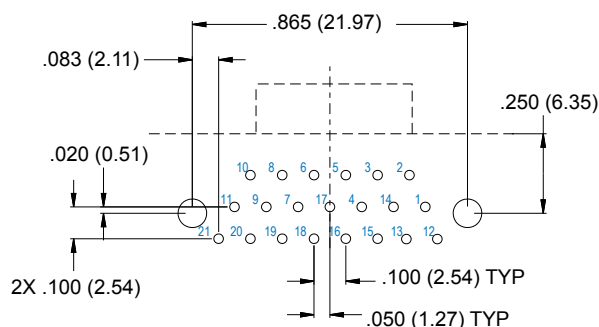
25 Socket



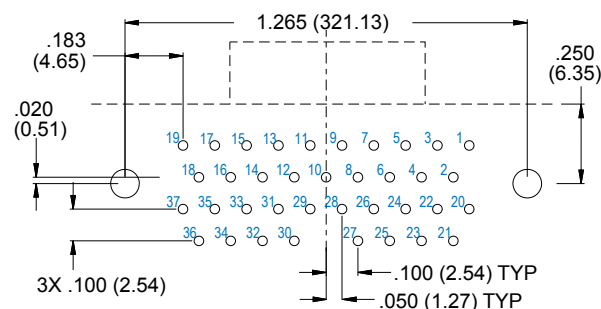
15 Socket



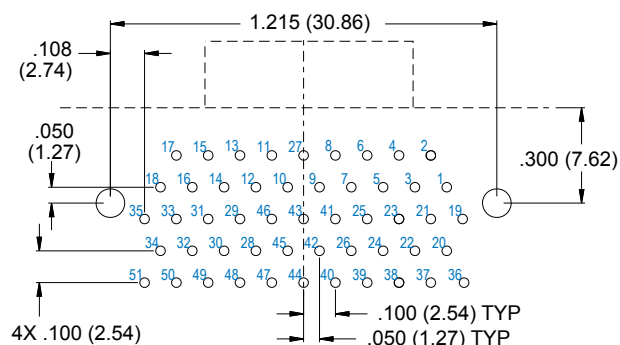
31 Socket



21 Socket



37 Socket



51 Socket

Notes

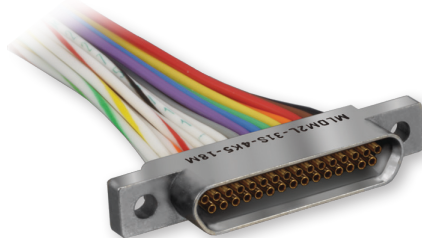
1. Patterns shown are for connector mounting side of PC board.
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Low Profile Metal and Plastic Shell Micro-D Connector Specifications

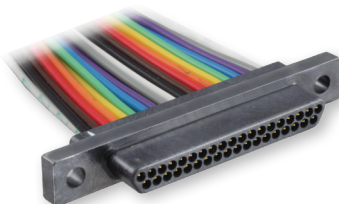
MLDM

Low Profile Metal Shell Connector



MWDL

Low Profile All-Plastic Connector



- Metal Shell or One-Piece Plastic
- High Reliability TwistPin Contact System
- .050" Pitch Contact Spacing
- Solder Cup, Pre-Wired or PCB
- 3 Amps, +150°C, 600 Vac

E

Low Profile Metal Shell and Plastic Shell Micro-D's Save Space Compared to MWDM Metal Shell Connectors

Low profile MLDM metal shell and MWDL plastic shell connectors are intended for high reliability board-to-wire I/O and wire-to-wire applications. Gold-plated TwistPin contacts provide excellent performance when subjected to high levels of shock and vibration. Plastic and metal versions are intermateable. Flange height is reduced by 33% compared to MWDM standard Micro-D connectors.

SIZE COMPARISON



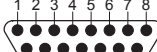
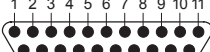
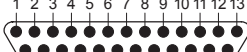
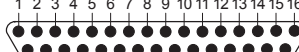
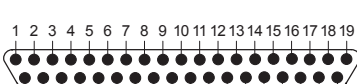
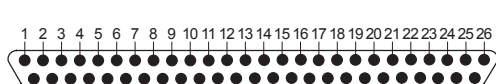
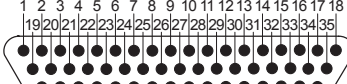
MLDM 51 Pin Low Profile



MWDM 51 Pin Standard Height

NOTE: Not intermatable with Standard MWDM Interface

Low Profile MLDM and MWDL Contact Arrangements

DIN 41612 10-pin connector				
				
9	15	21	25	31
DIN 41612 26-pin connector		DIN 41612 50-pin connector		
				
37		51-2		51

Mating face of pin connector. Socket connector contact numbers are reversed.

Materials and Finishes	
Contacts	Copper alloy, 50 µinch gold over nickel
Insulator, MWDL Body	Liquid crystal polymer (LCP or PPS)
MLDM Shell	Aluminum alloy
Mounting Hardware	Stainless Steel
Potting Compound	Epoxy
Insulated Wire	Per MIL-W-22759/11 and /33
Solid Wire, PC Tails	Per A-A-59551, gold plated or tinned

Specifications	
Current Rating	3 Amps
Contact Resistance	8 milliohms maximum
Dielectric Withstanding Voltage	600 Vac sea level
Insulation Resistance	5000 megohms minimum
Operating Temperature	-55°C. to +150°C.
Shock	50 g.
Vibration	20 g.