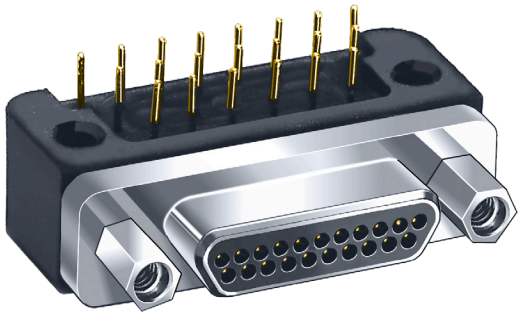
Micro-D MWDM-CBR
Right Angle Thru-Hole
Printed Circuit Board Connectors



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.

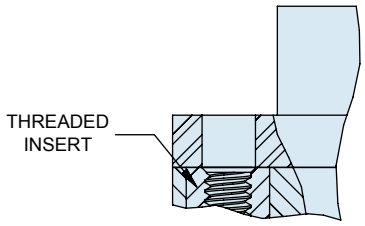
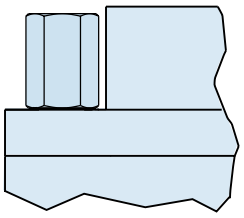
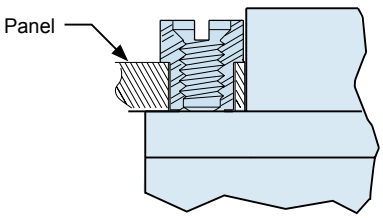
Solder-Dipped – Terminals are coated with Sn60/Pb40 tin-lead solder for best solderability. Optional gold-plated terminals are available for RoHS compliance.

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

How To Order CBR Style PCB Micro-D Connectors

Sample Part Number	MWDM	2	L	-15	P	CBR	R3	T	-.110	513
Series	**MWDM** Glenair Micro-D									
Shell Material and Finish	Aluminum Shell: **1** - Cadmium, **2** - Nickel, **4** - Black Anodize, **5** - Gold, **6** - Chem Film. Stainless Steel Shell: **3** - Passivated									
Insulator Material	**L** - LCP or PPS. LCP - 30% Glass-filled liquid crystal polymer. PPS - 40% Glass-filled polyphenylene sulfide									
Contact Layout	**9**, **15**, **21**, **25**, **31**, **37**, **51**, **69**, **75**, **100**, **130** (See Table II)									
Contact Type	**P** – Pin **S** – Socket									
Termination Type	**CBR -** Condensed Board Right Angle									
Jackpost Option	(**Omit** for None) **P** – Jackpost (See Table I). Jackposts for Rear Panel Mounting: **R1** – .032" Panel, **R2** – .047" Panel, **R3** – .062" Panel, **R4** – .093" Panel, **R5** – .125" Panel, **R6** – .080" Panel									
Threaded Insert Option	**T** - Threaded Insert In Board Mount Hole **Omit** for Thru-Hole									
Terminal Lentgth in Inches	**.080**, **.110**, **.125**, **.140**, **.150**, **.172**, **.190**, **.250** Length in Inches ± .015 (0.38)									
Gold-Plated Terminal Mod Code	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
		
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.

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Micro-D MWDM-CBR
Right Angle Thru-Hole
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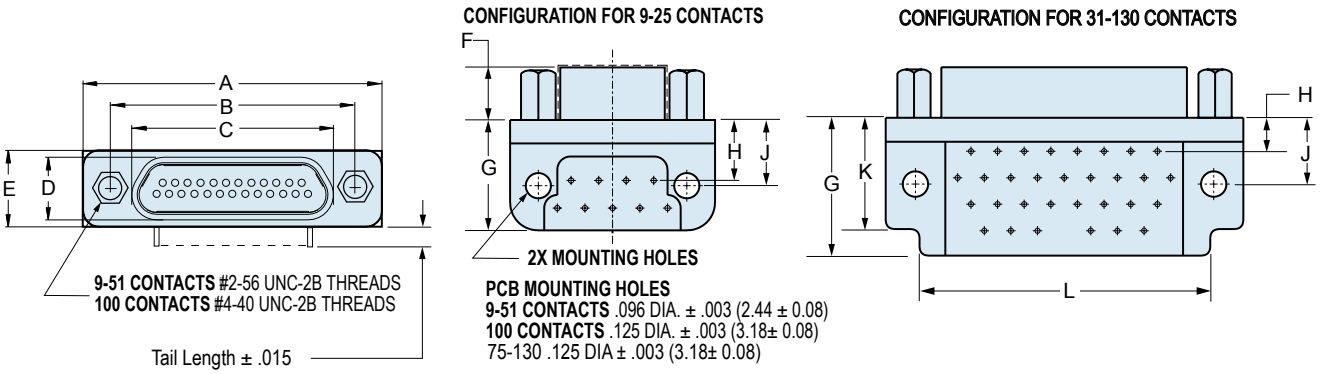
Table II: Dimensions



Layout	A Max.		B		C Max.		D Max.		E Max.		F		G Max.		H		J		K Max.		L Max.	
	In.	mm.	In. ±.003	mm. ± 0.08	In.	mm.	In.	mm.	In.	mm.	In. ±.003	mm. ± 0.08	In.	mm.	In. ±.010	mm. ±0.25	In. ±.010	mm. ±0.25	In.	mm.	In.	mm.
9P	.787	19.94	.565	14.35	.333	8.46	.184	4.67	.310	7.87	.183	4.65	.425	10.80	.230	5.84	.250	6.35	---	---	---	---
9S	.787	19.94	.565	14.35	.400	10.16	.250	6.35	.310	7.87	.195	4.95	.425	10.80	.230	5.84	.250	6.35	---	---	---	---
15P	.937	23.75	.715	18.16	.483	12.27	.184	4.67	.310	7.87	.183	4.65	.425	10.80	.130	3.30	.250	6.35	---	---	---	---
15S	.937	23.75	.715	18.16	.551	14.00	.250	6.35	.310	7.87	.195	4.95	.425	10.80	.130	3.30	.250	6.35	---	---	---	---
21P	1.087	27.56	.865	21.97	.633	16.08	.184	4.67	.310	7.87	.183	4.65	.425	10.80	.130	3.30	.250	6.35	---	---	---	---
21S	1.087	27.56	.865	21.97	.701	17.81	.250	6.35	.310	7.87	.195	4.95	.425	10.80	.130	3.30	.250	6.35	---	---	---	---
25P	1.187	30.01	.965	24.51	.733	18.62	.184	4.67	.310	7.87	.183	4.65	.425	10.80	.130	3.30	.250	6.35	---	---	---	---
25S	1.187	30.01	.965	24.51	.801	20.35	.250	6.35	.310	7.87	.195	4.95	.425	10.80	.130	3.30	.250	6.35	---	---	---	---
31P	1.337	33.91	1.115	28.32	.883	22.43	.184	4.67	.310	7.87	.183	4.65	.525	13.34	.130	3.30	.250	6.35	.450	11.43	1.085	27.56
31S	1.337	33.91	1.115	28.32	.951	24.16	.250	6.35	.310	7.87	.195	4.95	.525	13.34	.130	3.30	.250	6.35	.450	11.43	1.085	27.56
37P	1.487	37.72	1.265	32.13	1.033	26.24	.184	4.67	.310	7.87	.183	4.65	.525	13.34	.130	3.30	.250	6.35	.450	11.43	1.185	30.10
37S	1.487	37.72	1.265	32.13	1.101	27.96	.250	6.35	.310	7.87	.195	4.95	.525	13.34	.130	3.30	.250	6.35	.450	11.43	1.185	30.10
51P	1.435	36.45	1.215	30.86	.983	24.97	.228	5.79	.351	8.92	.183	4.65	.660	16.76	.150	3.81	.300	7.62	.450	11.43	1.225	31.12
51S	1.435	36.45	1.215	30.86	1.051	26.70	.296	7.52	.351	8.92	.195	4.95	.660	16.76	.150	3.81	.300	7.62	.450	11.43	1.225	31.12
69P	1.740	44.20	1.515	38.48	1.283	32.59	.228	5.79	.351	8.92	.183	4.65	.750	19.05	.150	3.81	.300	7.62	.450	11.43	1.530	38.86
69S	1.740	44.20	1.515	38.48	1.351	34.32	.296	7.52	.351	8.92	.195	4.95	.750	19.05	.150	3.81	.300	7.62	.450	11.43	1.530	38.86
75P	2.080	52.83	1.705	43.31	1.384	35.15	.228	5.79	.351	8.92	.183	4.65	.800	20.32	.200	5.08	.400	10.16	.590	14.99	1.650	41.91
75S	2.080	52.83	1.705	43.31	1.450	36.83	.296	7.52	.351	8.92	.195	4.95	.800	20.32	.200	5.08	.400	10.16	.590	14.99	1.650	41.91
100P	2.175	55.12	1.800	45.72	1.383	35.13	.270	6.86	.394	10.01	.183	4.65	1.010	25.65	.200	5.08	.400	10.16	.590	14.99	1.820	46.23
100S	2.175	55.12	1.800	45.72	1.451	36.86	.333	8.46	.394	10.01	.195	4.95	1.010	25.65	.200	5.08	.400	10.16	.590	14.99	1.820	46.23
130P	2.520	64.01	2.150	54.61	1.735	44.07	.270	6.86	.394	10.01	.183	4.65	1.010	25.65	.200	5.08	.400	10.16	.620	15.75	2.160	54.86
130S	2.520	64.01	2.150	54.61	1.735	44.07	.333	8.46	.394	10.01	.195	4.95	1.010	25.65	.200	5.08	.400	10.16	.620	15.75	2.160	54.86

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

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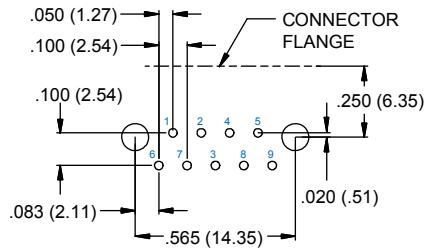
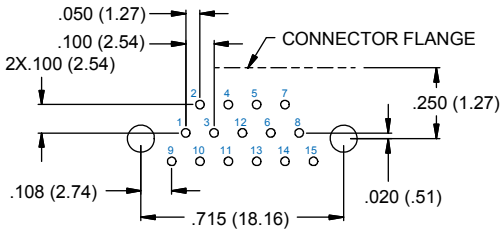
Micro-D MWDM-CBR
Right Angle Thru-Hole
Printed Circuit Board Connectors

MICRO-D CBR Board Mount Connector PCB Layouts – Pin Connectors

Patterns shown are for connector mounting side of PC board. 9 Thru 69 Contacts .096 (2.44) Diameter Mounting Holes, 75-130 Pin .125 (3.18) Diameter



9 PIN



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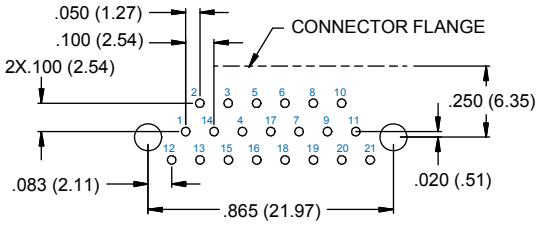
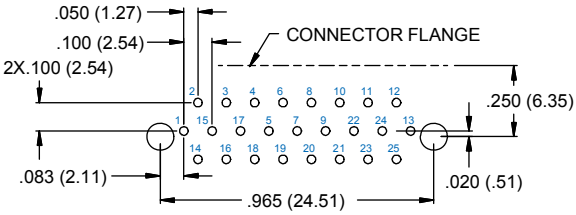
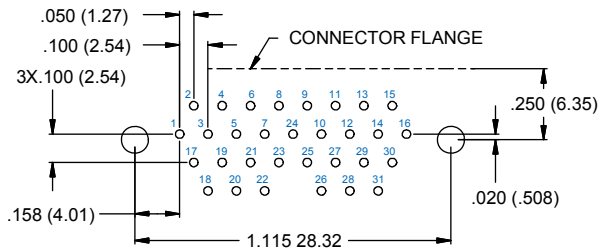


21 PIN



25 PIN



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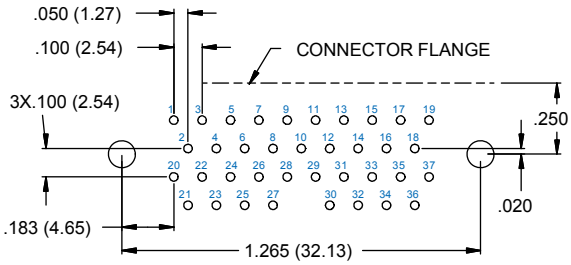
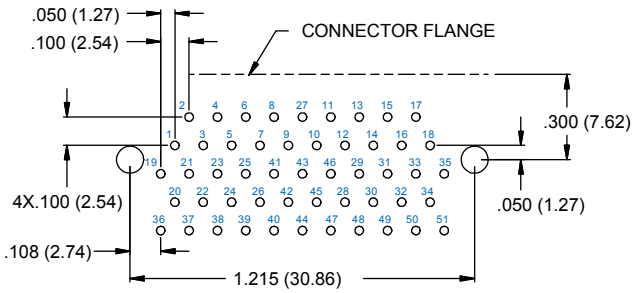
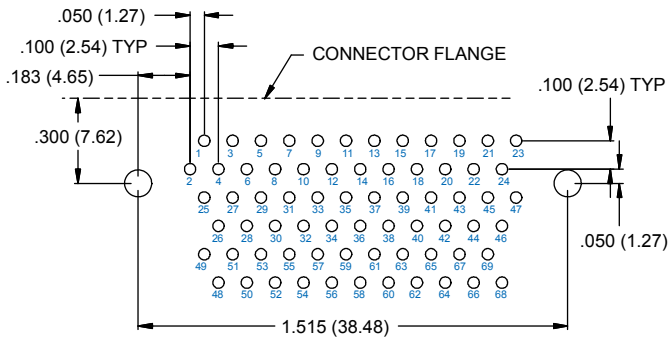


37 PIN



51 PIN



69 PIN

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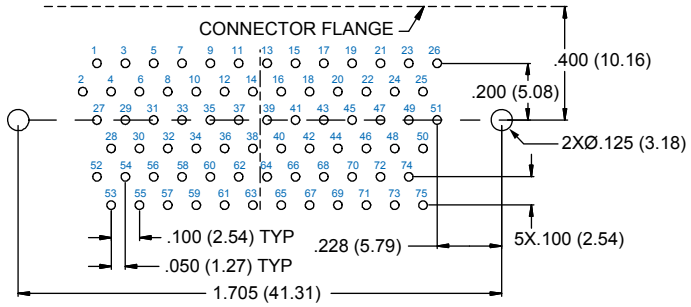
MICRO-D CBR Board Mount Connector PCB Layouts – Pin Connectors

Patterns shown are for connector mounting side of PC board. 9 Thru 69 Contacts .096 (2.44) Diameter Mounting Holes, 75-130 Pin .125 (3.18) Diameter



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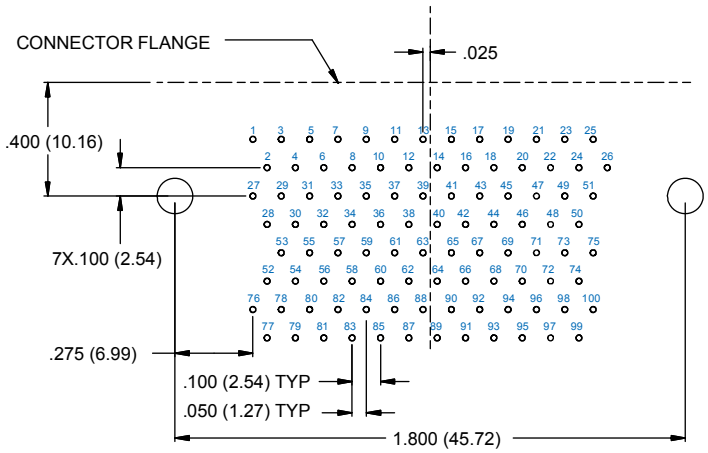
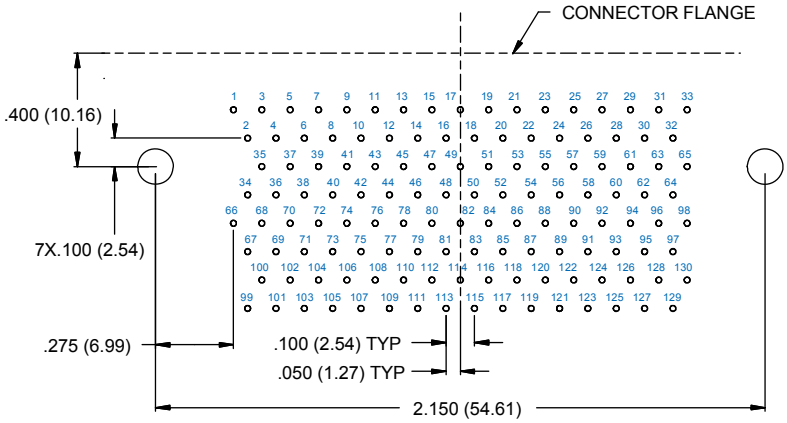


100 PIN



130 PIN

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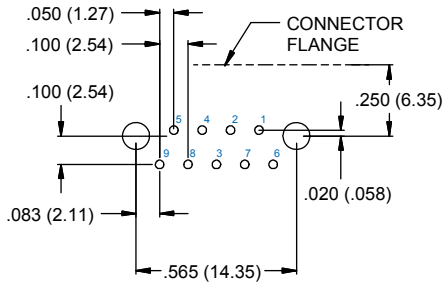
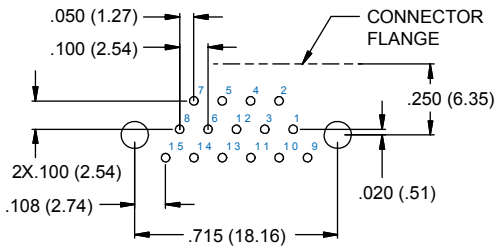
Micro-D MWDM-CBR
Right Angle Thru-Hole
Printed Circuit Board Connectors

MICRO-D CBR Board Mount Connector PCB Layouts – Socket Connectors

Patterns shown are for connector mounting side of PC board. 9 Thru 69 Contacts .096 (2.44) Diameter Mounting Holes, 75-130 Pin .125 (3.18) Diameter



9 SOCKET



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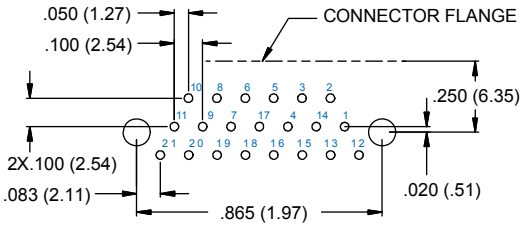

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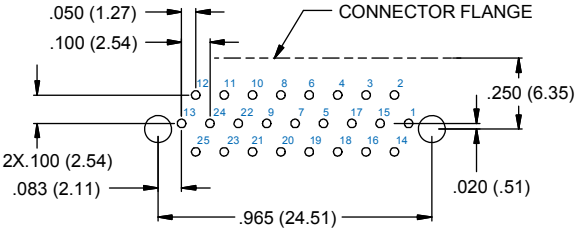
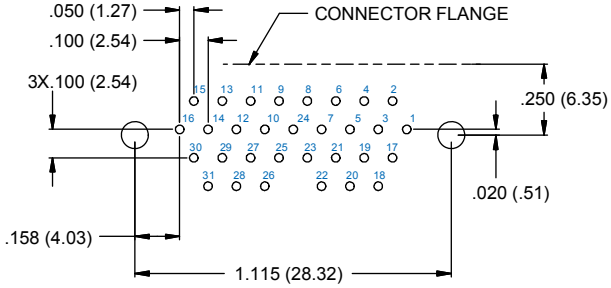
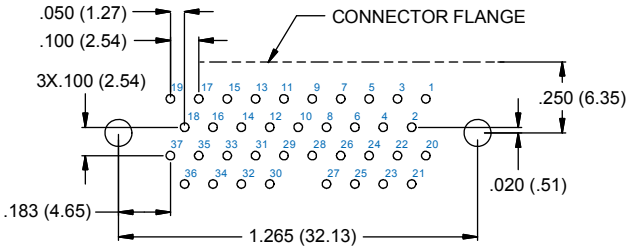


25 SOCKET



31 SOCKET



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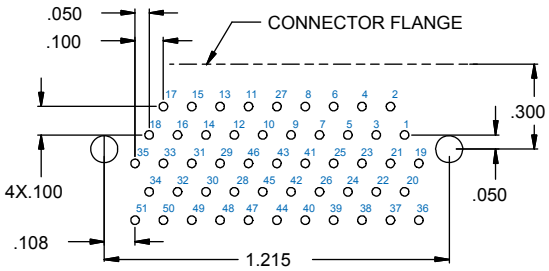
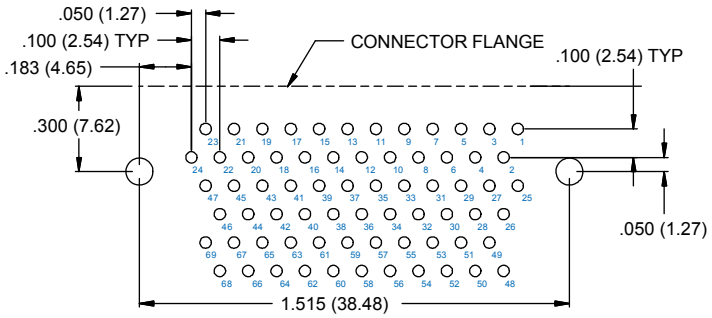


51 SOCKET



69 SOCKET

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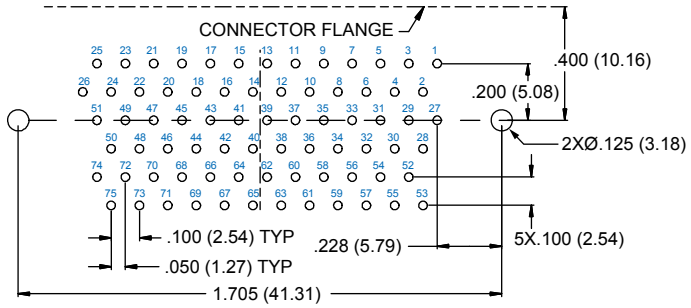
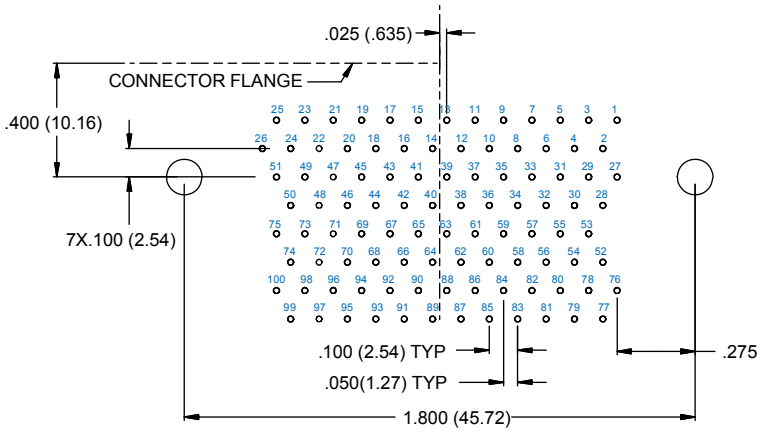
MICRO-D CBR Board Mount Connector PCB Layouts – Socket Connectors

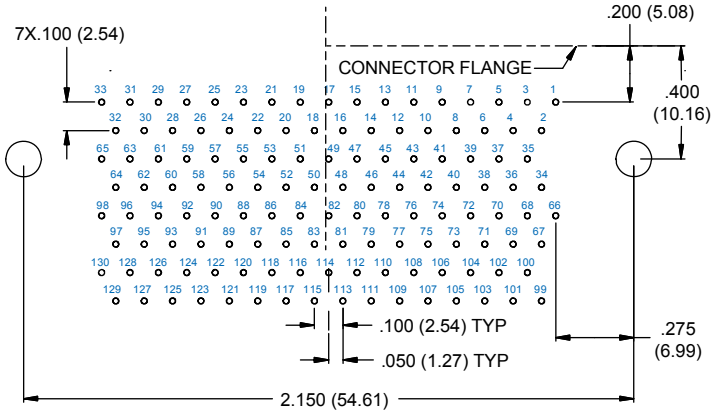
Patterns shown are for connector mounting side of PC board. 9 Thru 69 Contacts .096 (2.44) Diameter Mounting Holes, 75-130 Pin .125 (3.18) Diameter



75 SOCKET



100 SOCKET



130 SOCKET

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Glenair:

MWDM2L-9GP4K7-12L GS85049/2113Z103A 550T065M3R31F04-186F 319HS096XW1106ANP-408 ST5M1500E9 711HS134NF09-03-12-4AUN MWDM2L-9P-4J1-48B GS85049/69-13M-152-8 MWDM2L-9GS-6K7-14M MWDM2L-9GP-4K7-10K MWDM2L-9GS-4J7-2B MWDM2L-9GS-6K7-20M 319HS096XW1913ANP-408 MWDM2L-9P-4E7-24S1 GS85049/52S20M-405 MWDM2L-9P-4J7-132B MWDM2L-9GP-4K7-12K GS85049/52-1-20M-405 712HS178NF0909-61-101A MWDM2L-9GP-4K7-6K 340HS002NF25-4E12A-14H MWDM6L-25SSA 319HS096XW1712ANP-408 440XS031NF0102-3T-709C MWDM2L-9GS-6E1-36S GS28840A2556NF98K MWDM2L-9GS-6K7-6M ST5M1501E13 711AS134NF14-03-12-3AUN 440HS030Z11934-4BT-49A MWDM2L-9P-4K1-12S MWDM2L-9GS-4K1-6B MWDM2L-9GS-6K1-36S MWDM2L-9GS-4K7-6B 319HS096XW1308ANP-408 319HS096XW2519ANP-408 MWDM2L-9GP-4K7-8K ST5M1429-002 319HS096XW2317ANP-408 VG95328Z2A12 MWDM2L-9GS-4J7-6B MWDM2L-69SCBRP.190 MWDM4L9SCBR-.140 MWDM2L-130PCBRP.110 MWDM2L-69SCBRP.150 MWDM1L-37SCBRPT.110 MWDM2L-69SCBRP.125 MWDM1L-69SCBRP.140 MWDM1L-100PCBRP.190 MWDM5L9PCBR-.250 MWDM2L-25PCBRP.250 MWDM1L-100PCBRP.150 MWDM2L-100SCBRP.190 MWDM2L-31SCBRP.172 MWDM1L-31SCBRP.140 MWDM1L-69PCBRP.140 MWDM2L-31SCBRP.125 MWDM44L-25SCBRPT-.140 MWDM1L-100SCBRP.125 MWDM2L-9PCBRR3.-140 MWDM2L-69PCBRP.140 MWDM2L-51PCBRR1-T.110 MWDM2L-69SCBRP.250 MWDM2L-51SCBRM-.110 MWDM3L-15PCBRP.250 MWDM2L-21PCBRP.190 MWDM2L-37SCBR-.230 MWDM2L-31PCBRM-.110 MWDM2L-51PCBRR3.-140 MWDM2L-21PCBRM-.110 MWDM2L-15PCBRR3.-140 MWDM1L-25SCBRR1-T.150 MWDM2L-15PCBRM-.080 MWDM3L-100SCBRP.080 MWDM3L9PCBR-.250 MWDM1L-69SCBRP.172 MWDM2L-37PCBRP.250 MWDM1L-69SCBRP.110 MWDM2L-100SCBRP.140 MWDM5L9SCBR-.250 MWDM2L-130SCBRP.110 MWDM1L-15PCBRP.140 MWDM33L-9PCBRP.125 MWDM3L-51SCBRP.110 MWDM2L-21SCBRP.172 MWDM1L-69PCBRP.110 MWDM3L-25PCBRP.250 MWDM2L-69SCBRP.140 MWDM33L-51SCBRR6T-.110 MWDM33L-51PCBRR6-.110 MWDM1L-100PCBRP MWDM33L-51SCBRR6-.110 MWDM33L-51PCBRR6T-.110 MWDM1L-37PCBRPT.250 MWDM2L-15S-CBRR5-.172 MWDM1L-15S-CBRPT-.110 MWDM2L-75PCBRP.110 MWDM2L-15PCBRR3T-.110-513 MWDM2L-15PCBRPT-.150-432 MWDM2L-15PCBRR4T-.110-513