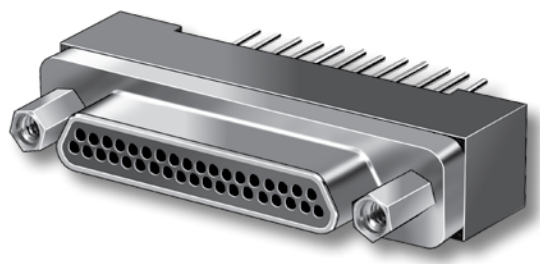




Micro-D Printed Circuit Board Connectors Condensed Board Straight CBS .075 Inch Spacing



Save Space On Your Circuit Board—These Micro-D connectors feature .075 inch row spacing. The board footprint is reduced to match the size of the connector body.

Designed for Flex Circuits—CBS COTS connectors are available with jackscrews for flex circuit compatibility.

Solder-Dipped—Terminals are coated with SN63/Pb37 tin-lead solder for best solderability. Optional gold-plated terminals are available for RoHS compliance.

High Performance—These connectors meet the demanding requirements of MIL-DTL-83513. Suitable for Level 1 NASA reliability.

HOW TO ORDER CBS CONDENSED BOARD STRAIGHT CONNECTORS

Series	Shell Material and Plating Finish	Insulator Material	Number of Contacts	Contact Type	Termination Style	Hardware Option	PC Tail Length	Gold-Plated Terminal Mod Code
MWDM Micro-D Metal Shell	Aluminum Shell	L LCP (Liquid Crystal Polymer)	9	P Pin	CBS	NN –No Jackpost, No Threaded Insert	.080	These connectors are solder-dipped in 63/37 tin- lead solder. To delete the solder dip and change to gold-plated terminals, add code 513
	1 – Cadmium		15				S Socket	
	2 – Nickel		21	.140				
	4 – Black Anodize		25	.172				
	5 – Gold		31	.190				
	6 – Chem Film		37	RN –Extended Jackpost for .196" (5.0) PCB, No Threaded Insert	.250			
	51	NU –Threaded Insert Only, No Jackposts	Length in Inches					
	Stainless Steel Shell			100	PU –Short Jackpost and Threaded Insert	± .015 (0.38)		
	3 – Passivated							

Sample Part Number

MWDM	1	L –	31	P	CBS	NN	– .110	
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Micro-D Printed Circuit Board Connectors Condensed Board Straight CBS .075 Inch Spacing

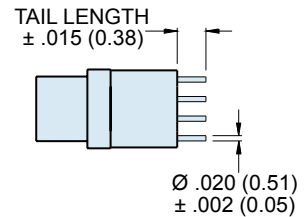
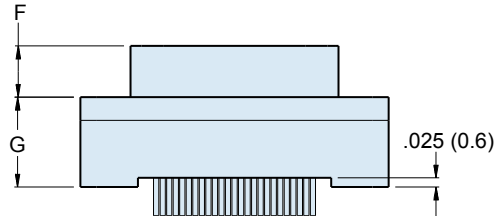
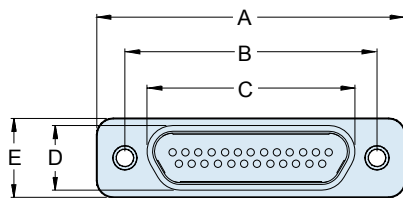


PERFORMANCE SPECIFICATIONS

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)
Interfacial Seal	Flourosilicone Rubber, Blue
Pin Contact	Beryllium Copper 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

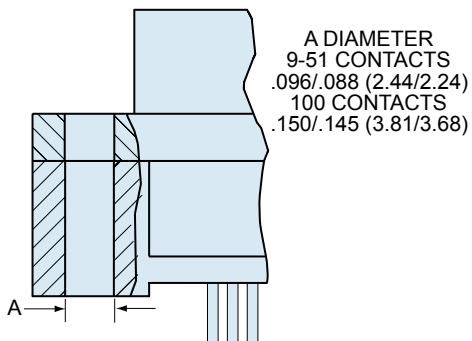


MICRO-D CBS BOARD MOUNT CONNECTOR DIMENSIONS

Layout	A Max.		B		C Max.		D Max.		E Max.		F		G Max.	
	In.	mm.	In. ± .005	mm. ± 0.13	In.	mm.	In.	mm.	In.	mm.	In. ± .003	mm. ± 0.08	In.	mm.
9P	.785	19.94	.565	14.35	.333	8.46	.184	4.67	.310	7.87	.183	4.65	.355	9.02
9S	.785	19.94	.565	14.35	.400	10.16	.250	6.35	.310	7.87	.195	4.95	.355	9.02
15P	.935	23.75	.715	18.16	.483	12.27	.184	4.67	.310	7.87	.183	4.65	.355	9.02
15S	.935	23.75	.715	18.16	.551	14.00	.250	6.35	.310	7.87	.195	4.95	.355	9.02
21P	1.085	27.56	.865	21.97	.633	16.08	.184	4.67	.310	7.87	.183	4.65	.355	9.02
21S	1.085	27.56	.865	21.97	.701	17.81	.250	6.35	.310	7.87	.195	4.95	.355	9.02
25P	1.185	30.01	.965	24.51	.733	18.62	.184	4.67	.310	7.87	.183	4.65	.355	9.02
25S	1.185	30.01	.965	24.51	.801	20.35	.250	6.35	.310	7.87	.195	4.95	.355	9.02
31P	1.335	33.91	1.115	28.32	.883	22.43	.184	4.67	.310	7.87	.183	4.65	.355	9.02
31S	1.335	33.91	1.115	28.32	.951	24.16	.250	6.35	.310	7.87	.195	4.95	.355	9.02
37P	1.485	37.72	1.265	32.13	1.033	26.24	.184	4.67	.310	7.87	.183	4.65	.355	9.02
37S	1.485	37.72	1.265	32.13	1.101	27.96	.250	6.35	.310	7.87	.195	4.95	.355	9.02
51P	1.435	36.45	1.215	30.86	.983	24.97	.224	5.69	.400	10.16	.183	4.65	.355	9.02
51S	1.435	36.45	1.215	30.86	1.051	26.70	.293	7.44	.400	10.16	.195	4.95	.355	9.02
100P	2.170	55.12	1.800	45.72	1.383	35.13	.270	6.86	.510	12.95	.183	4.65	.430	10.92
100S	2.170	55.12	1.800	45.72	1.451	36.86	.333	8.46	.510	12.95	.195	4.95	.430	10.92

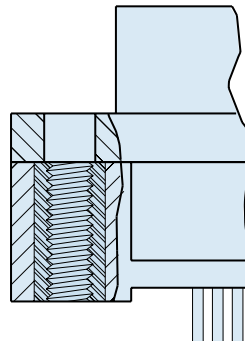
MICRO-D CBS BOARD MOUNT CONNECTOR HARDWARE OPTIONS

C



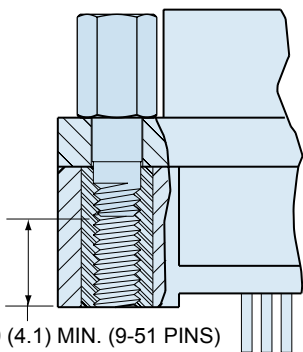
NN Style
Thru-Hole, No Hardware

A DIAMETER
9-51 CONTACTS
.096/.088 (2.44/2.24)
100 CONTACTS
.150/.145 (3.81/3.68)



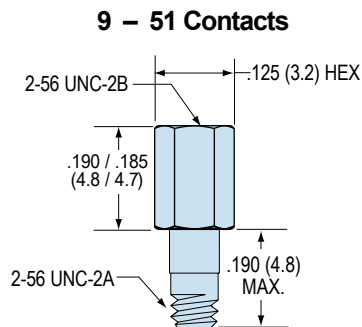
NU Style
Threaded Insert

9-51 CONTACTS
NO. 2-56 UNC-2B
100 CONTACTS
NO. 4-40 UNC-2B

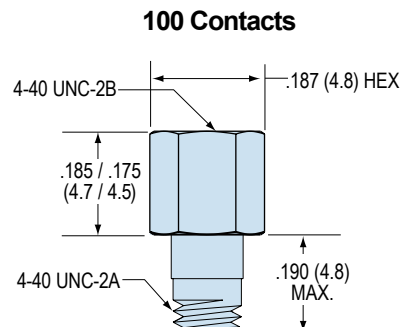


.160 (4.1) MIN. (9-51 PINS)
.225 (5.7) MIN. (100 PIN)

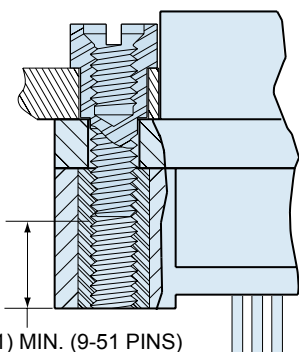
PU Style
Jackpost with Threaded Insert



Kit Part Number **500-063-1**
Kit Consists of Two Jackposts

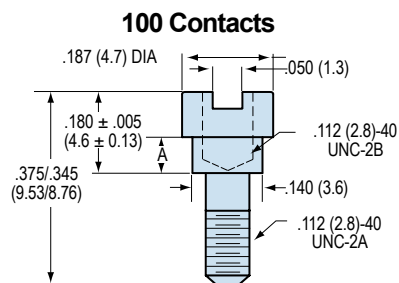
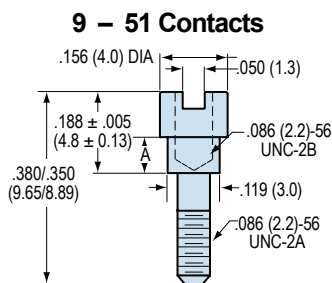


Kit Part Number **500-063-2**
Kit Consists of Two Jackposts



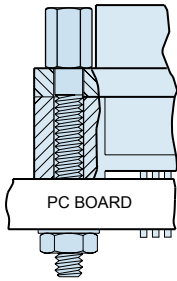
.160 (4.1) MIN. (9-51 PINS)
.225 (5.7) MIN. (100 PIN)

RU Style
Jackpost For Rear Panel
Mounting, with Threaded Insert

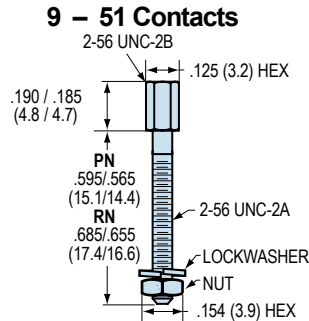


Hardware Option	Panel Thickness	Part Number	A ± .003 (0.08)	Hardware Option	Panel Thickness	Part Number	A ± .003 (0.08)
R2U	1/32 (0.8)	177-505-A-2-2	.024 (0.6)	R2U	1/32 (0.8)	177-505-D-4-2	.024 (0.6)
R3U	3/64 (1.2)	177-505-A-2-3	.041 (1.0)	R3U	3/64 (1.2)	177-505-D-4-3	.041 (1.0)
R4U	1/16 (1.6)	177-505-A-2-4	.055 (1.4)	R4U	1/16 (1.6)	177-505-D-4-4	.055 (1.4)
R5U	3/32 (2.4)	177-505-A-2-5	.086 (2.2)	R5U	3/32 (2.4)	177-505-D-4-5	.086 (2.2)
R6U	1/8 (3.2)	177-505-A-2-6	.118 (3.0)	R6U	1/8 (3.2)	177-505-D-4-6	.118 (3.0)

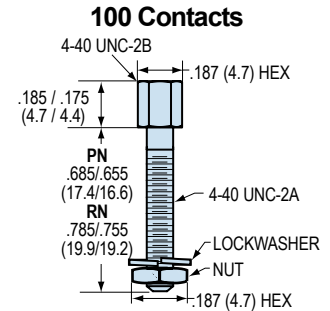
MICRO-D CBS BOARD MOUNT CONNECTOR HARDWARE OPTIONS



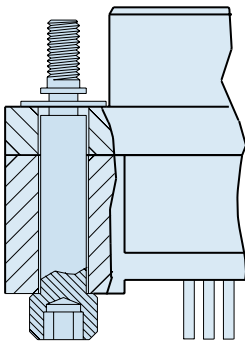
PN Style for .062" PCB
RN Style for .196" PCB
Jackpost Kit



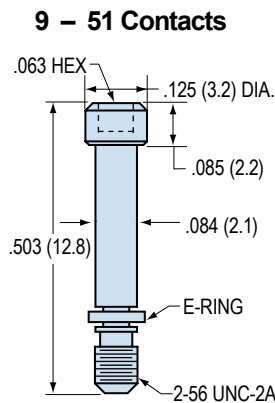
PN Kit Part Number **500-069-2-6**
RN Kit Part Number **500-069-2-7**
Kit Consists of 2 Jackposts, 2 Nuts, 2 Washers



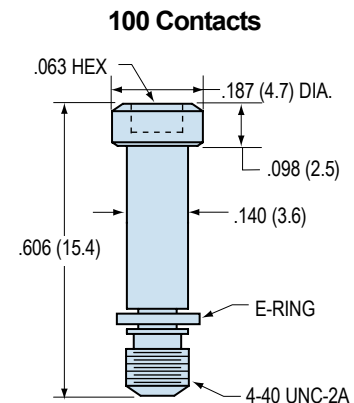
PN Kit Part Number **500-069-4-7**
RN Kit Part Number **500-069-4-8**
Kit Consists of 2 Jackposts, 2 Nuts, 2 Washers



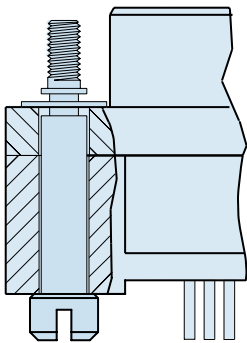
M Style
Hex Head Jackscrew with
E-Ring



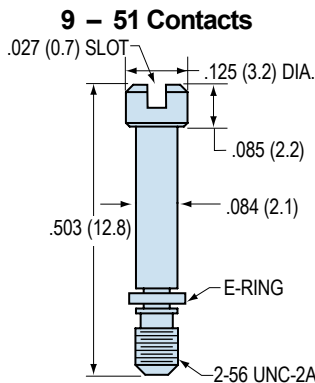
Kit Part Number **500-080-2**
Kit Consists of 2 Jackscrews and 2 E-Rings



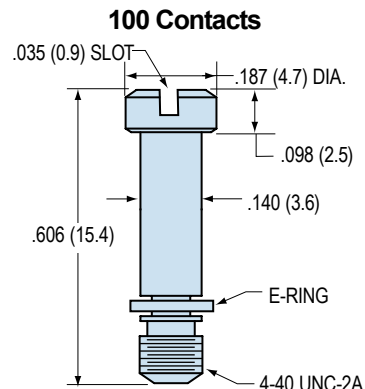
Kit Part Number **500-080-4**
Kit Consists of 2 Jackscrews and 2 E-Rings



S Style
Slot Head Jackscrew with
E-Ring



Kit Part Number **500-081-2**
Kit Consists of 2 Jackscrews and 2 E-Rings

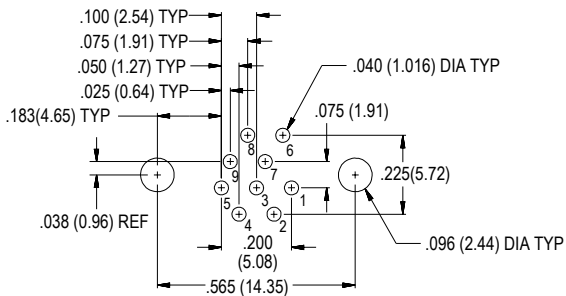


Kit Part Number **500-081-4**
Kit Consists of 2 Jackscrews and 2 E-Rings

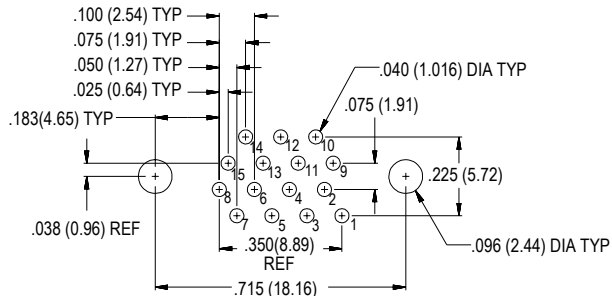
Patterns shown are for connector mounting side of PC board.

MICRO-D CBS BOARD MOUNT CONNECTOR PCB LAYOUTS – PIN CONNECTORS

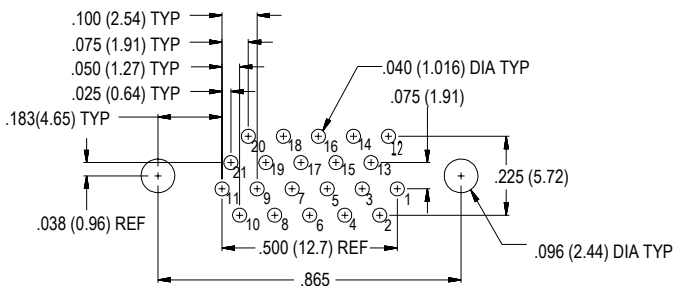
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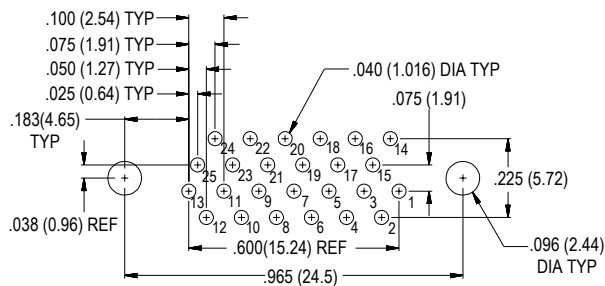
9 PIN MWDM-9PCBS



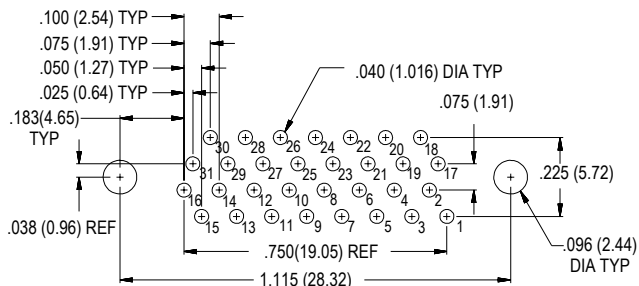
15 PIN MWDM-15PCBS



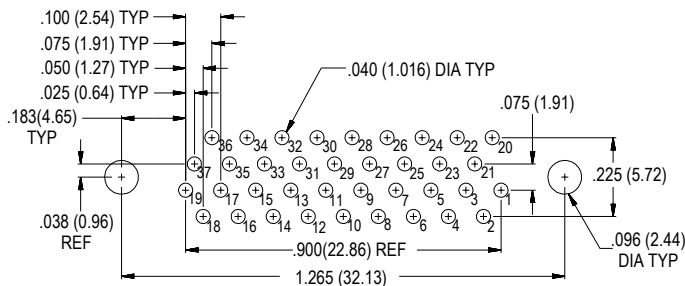
21 PIN MWDM-21PCBS



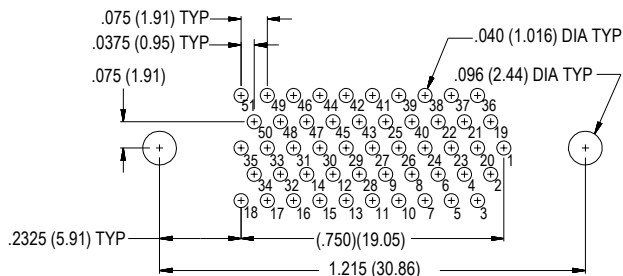
25 PIN MWDM-25PCBS



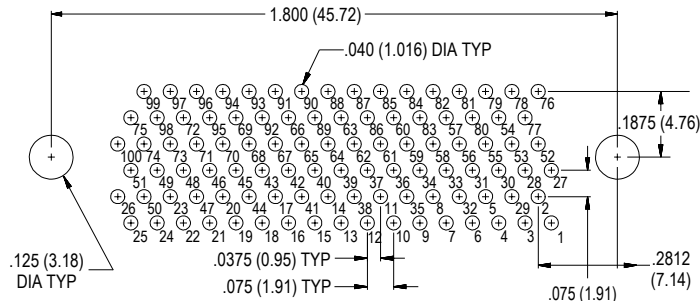
31 PIN MWDM-31PCBS



37 PIN MWDM-37PCBS



51 PIN MWDM-51PCBS



100 PIN MWDM-100PCBS

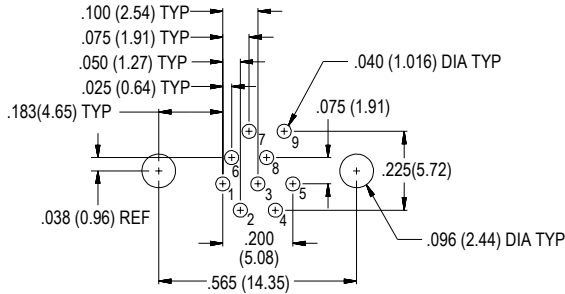
Micro-D Printed Circuit Board Connectors Condensed Board Straight CBS .075 Inch Spacing



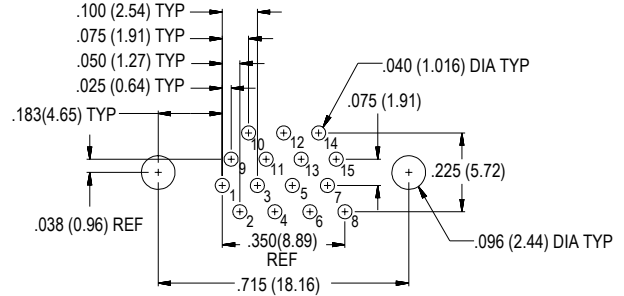
Micro-D
PCB

Patterns shown are for connector mounting side of PC board.

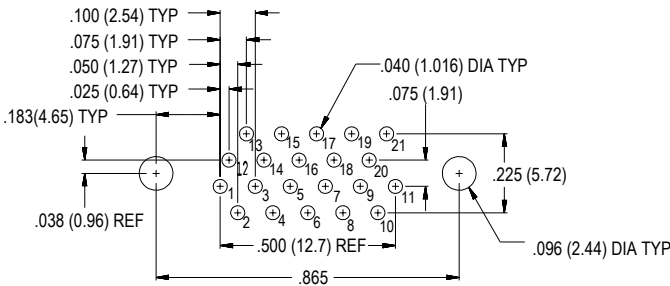
MICRO-D CBS BOARD MOUNT CONNECTOR PCB LAYOUTS – SOCKET CONNECTORS



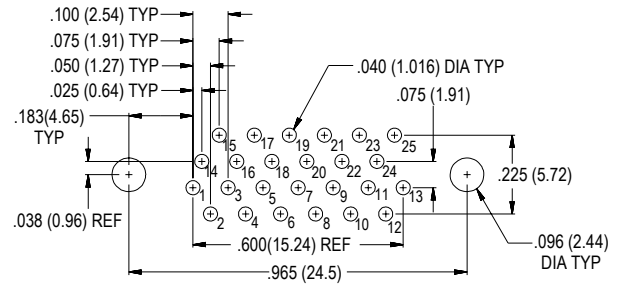
9 Socket MWDM-9SCBS



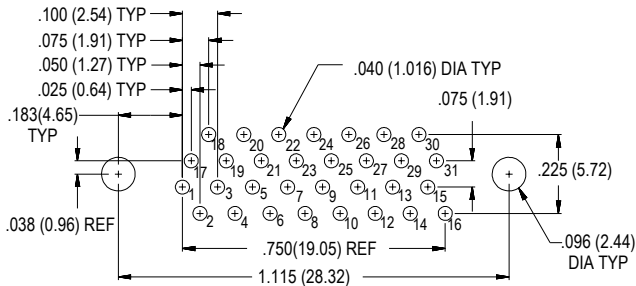
15 Socket MWDM-15SCBS



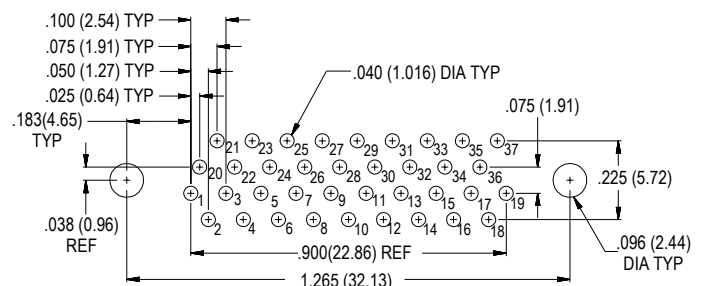
21 Socket MWDM-21SCBS



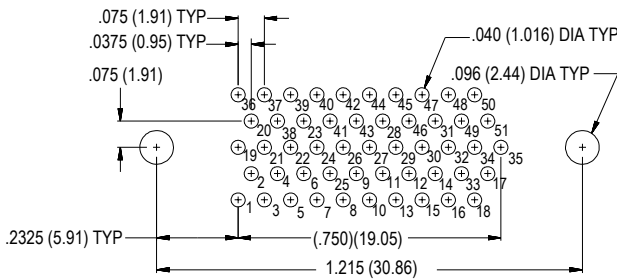
25 Socket MWDM-25SCBS



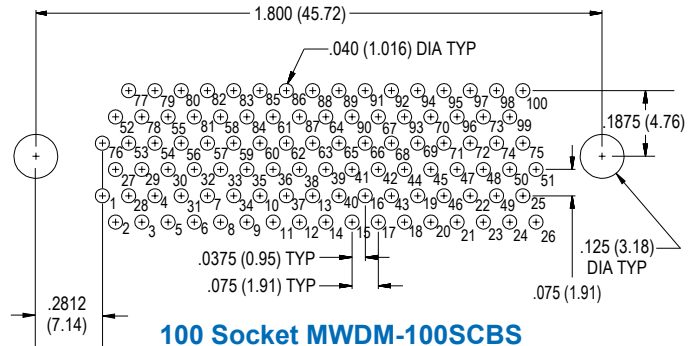
31 Socket MWDM-31SCBS



37 Socket MWDM-37SCBS



51 Socket MWDM-51SCBS



100 Socket MWDM-100SCBS