



Cable to Board (Standard Footprint)

.050"

9 thru 100 Contacts

Rugged Cable

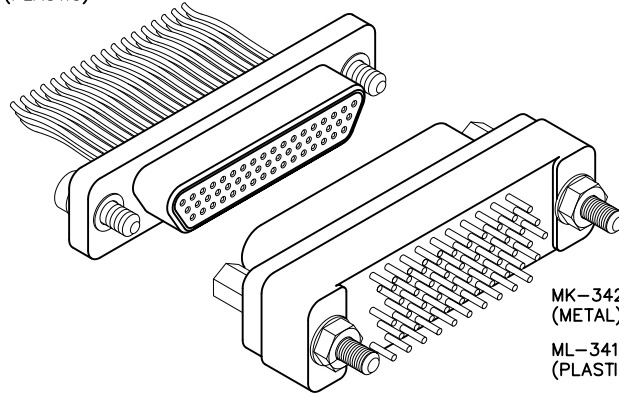
MM, MN

Rugged Board Mount

MK, ML

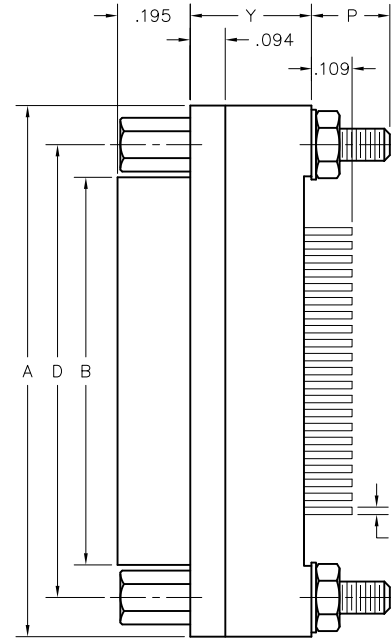
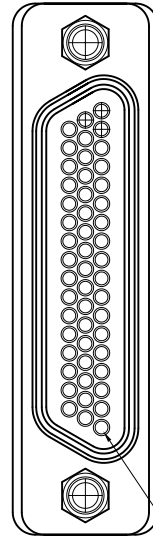
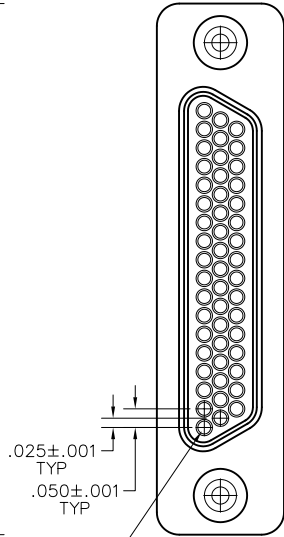
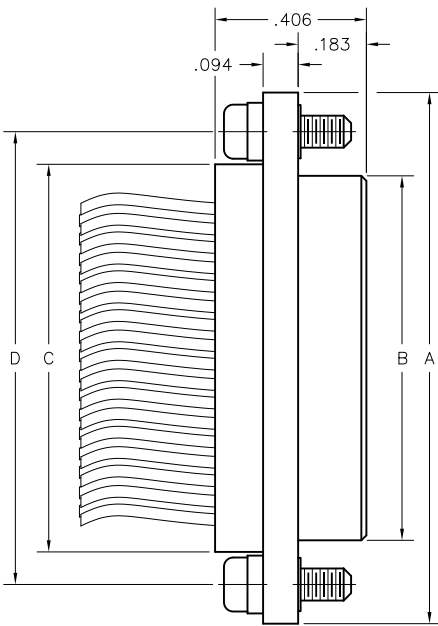
MM-312-051-161-45WP
(METAL)

MN-311-051-161-45WP
(PLASTIC)

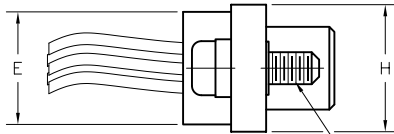


MK-342-051-225-2200
(METAL)

ML-341-051-225-2200
(PLASTIC)

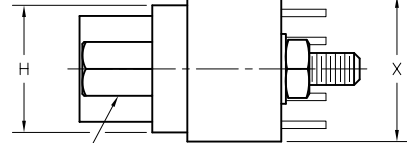


.020±.001 DIA TYP



#2-56 CAPTIVE JACKSCREW (2 PLCS)
SEE PAGE MA-5

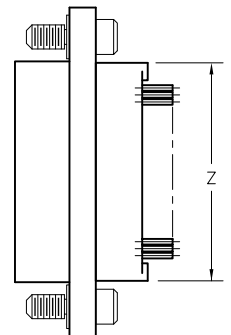
PLUG



#2-56 JACKPOST (2 PLCS)
SEE PAGE MA-5

RECEPTACLE

SIZE	CONTACT ROWS	DIMENSIONS										HARDWARE		
		A	B		C	D	E		H	P	X		Y	Z***
		PLUG MAX	RCPT MAX			POTTING WELL MAX								
9	2	.775	.334	.400	.390	.565	.270	.298	.210	.298	.280	.390	#2-56 UNC THD (#2-56 CLEARANCE OR #2-56 UNC THREADED INSERT)	
15		.925	.484	.550	.540	.715								.540
21		1.075	.634	.700	.690	.865								.690
25		1.175	.734	.800	.790	.965								.780
31		1.325	.884	.950	.940	1.115								.930
37		1.475	1.034	1.100	1.090	1.265		.214		.330**	1.080			
51	3	1.425	.984	1.050	1.040	1.215	.310	.341	.219	.390	.325	1.046		
69		1.725	1.284	1.350	1.340	1.515								1.346
100		2.160	1.384	1.508	1.432	1.800								.360



* = 69 POSITION CONNECTORS ARE AVAILABLE IN METAL ONLY.
 ** = 37 POSITION WITH TURNING HARDWARE "Y" DIMENSION IS .280.
 *** = "Z" DIMENSION FOR TURNING JACKSCREW ONLY

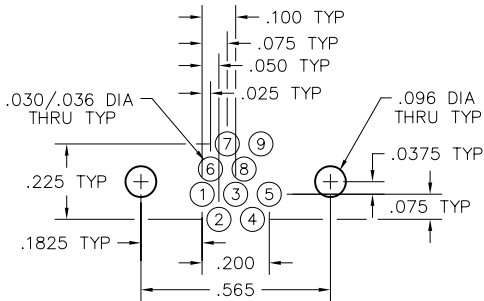
Call (972) 931-3200 Fax (972) 931-9305 www.AirBorn.com



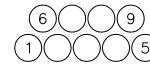
Recommended PC Board Layout

Straight, Standard Footprint

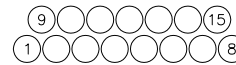
RECEPTACLE PC BOARD LAYOUT COMPONENT SIDE



CONNECTOR MATING FACE (RECEPTACLE)



9 POSITION



15 POSITION



21 POSITION



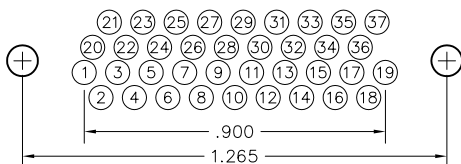
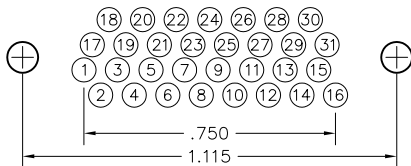
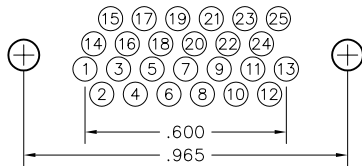
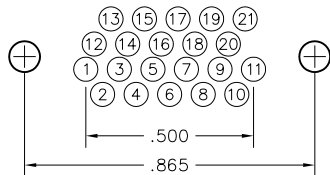
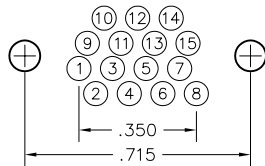
25 POSITION



31 POSITION



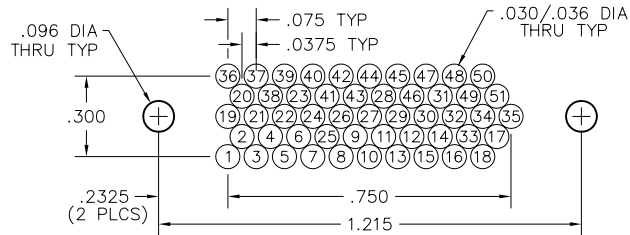
37 POSITION



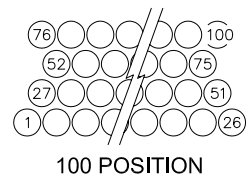
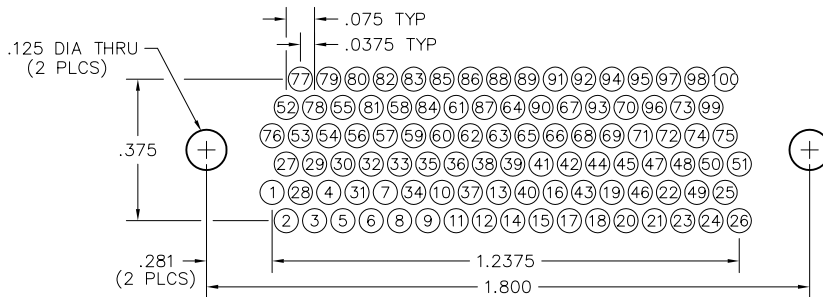
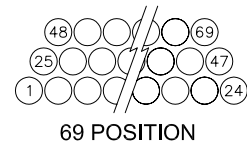
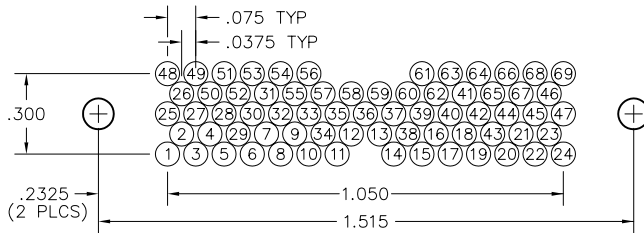
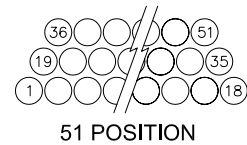
Recommended PC Board Layout

Straight, Standard Footprint

RECEPTACLE PC BOARD LAYOUT COMPONENT SIDE



CONNECTOR MATING FACE (RECEPTACLE)



PLUG: MM-312-051-161-45WP
RECEPTACLE: MK-342-051-225-2200
PLUG: MN-311-051-161-45WP
RECEPTACLE: ML-341-051-225-2200
 XX-XXX-XXX-XXX-XXXX-XXX

PLUG

RECEPTACLE

SERIES

MM .050" Rugged Metal I/O Connector MN .050" Rugged Plastic I/O Connector (MM & MN mate with MK, ML, MM, MN receptacles)	MK .050" Rugged Metal PC Board Mount Connector ML .050" Rugged Plastic PC Board Mount Connector (MK & ML mate with MK, ML, MM, MN plugs)
--	--

BODY

2 2-Row (Sizes 9 thru 37) 3 3-Row (Size 51 & 69***) 4 4-Row (Size 100) BODY STYLE: 1 Plug, straight, with ears BODY MATERIAL: 1 Polyphenylene Sulfide (MN only) 2 Polyphenylene Sulfide with electroless nickel shell 3 Polyphenylene Sulfide with electrodeposited cadmium shell <input checked="" type="checkbox"/> 4 Polyphenylene Sulfide with hard anodized black shell 5 Polyphenylene Sulfide with stainless steel shell	2 2-Row (Sizes 9 thru 37) 3 3-Row (Size 51 & 69***) 4 4-Row (Size 100) BODY STYLE: 4 Receptacle, straight, standard footprint BODY MATERIAL: 1 Polyphenylene Sulfide (ML only) 2 Polyphenylene Sulfide with electroless nickel shell 3 Polyphenylene Sulfide with electrodeposited cadmium shell <input checked="" type="checkbox"/> 4 Polyphenylene Sulfide with hard anodized black shell 5 Polyphenylene Sulfide with stainless steel shell
---	--

SIZE

XXX 009, 015, 021, 025, 031, 037, 051, 069***, 100	XXX 009, 015, 021, 025, 031, 037, 051, 069***, 100
--	--

CONTACTS

TYPE CONTACTS/TERMINATIONS: 11 Pin, straight, solder cup 14 Pin, straight, .500" pigtails (.018 dia) 15 Pin, straight, 1.000" pigtails (.018 dia) 16 Pin, straight, crimped wire PLATING OPTIONS: 1 50 μ" Au contacts (crimp wire) 3 50 μ" Au contacts; 10 μ" Au terminations (solder cup, pigtail) 5 50 μ" Au contacts; Sn/Pb alloy terminations (pigtail) <input checked="" type="checkbox"/> 7 50 μ" Au contacts; SAC305 terminations (pigtail)	TYPE CONTACTS/TERMINATIONS: 22 Socket, straight, PCB leads, .109" 23 Socket, straight, PCB leads, .140" 24 Socket, straight, PCB leads, .172" PLATING OPTIONS: 3 50 μ" Au contacts; 10 μ" Au terminations 5 50 μ" Au contacts; Sn/Pb alloy terminations <input checked="" type="checkbox"/> 7 50 μ" Au contacts; SAC305 terminations
---	---

HARDWARE

STYLE OF HARDWARE: 00 None 22 Two fixed jacknut assemblies (62*) 41 Two turning jackscrews, allen head, retaining ring (81*) 42 Two long turning jackscrews, allen head, retaining ring (82*) 43 Two turning jackscrews, slot head, retaining ring (83*) 44 Two long turning jackscrews, slot head, retaining ring (84*) 45 Two turning jackscrews, allen head, captivated** (85*) 99 Keying hardware, see options below (Body material 2, 3 and 4 only) POLARIZATION / WIRING: 00 None XX For wiring codes, see page MA-3 & MA-4	STYLE OF HARDWARE: 00 None 22 Two fixed jacknut assemblies (62*) 41 Two turning jackscrews, allen head, retaining ring**** (81*) 99 Keying hardware, see options below (Body material 2, 3 and 4 only) POLARIZATION / WIRING 00 None
--	--

OPTIONS

KSXX Two turning jackscrews. See page MA-6 for keying options (KJ*)	KPXX Two fixed jacknuts and interfacial sealing gasket. See page MA-6 for keying options (KN*) 900 Interfacial sealing gasket 0B7 Threaded inserts and interfacial sealing gasket
---	---

* = Use numbers or letters in parenthesis when ordering size 100. *** = 69 position connectors are available in metal only.
 ** = Captive hardware is factory installed and non-removable. **** = Connector body has no mounting holes.
 = Option not RoHS compliant

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [D-Sub MIL Spec Connectors](#) category:

Click to view products by [AirBorn](#) manufacturer:

Other Similar products are found below :

[M85049/50-5F](#) [850-056-0812](#) [1218697-4](#) [1484349-1](#) [17D25HV](#) [1996840-1](#) [243082-15](#) [1757682-1](#) [17D-E51218-1](#) [17SDA15S](#) [1883533-1](#)
[1883886-1](#) [1883889-1](#) [192900-0377](#) [M24308/8-347](#) [M83513/03-E09C](#) [443961-3](#) [5-1218949-1](#) [550-031NF1R6K](#) [3-1236089-2](#)
[550E001NF1R3J0L](#) [550T001NF1R6K0L](#) [557T283NF5B08](#) [DB121073-56](#) [DC121073157](#) [443869-3](#) [443869-4](#) [443869-5](#)
[550S004NF1R1B0F03](#) [557E283NF1A06](#) [527-019NF0303R2K1F](#) [5-446405-1](#) [550-031NF1R2E](#) [550E003M2R9J0F04](#) [550E003M3R9J0F05](#)
[550E024M104R9J0](#) [550E024NF102R3J0B](#) [550E039NF1R3J1-02](#) [550S003M3R9B0F05](#) [550S004M4R7M0F04](#) [550S004NF1R1B1F02](#)
[550S008M3F0K0F04](#) [550S086M5R3J0L](#) [550S100NF3F0E](#) [550T001M2R7E0L](#) [550T001NF1F0B1L](#) [550T001NF1R1K0G](#)
[550T001NF1R3K0G](#) [550T001NF1R4K0L](#) [550T001NF2R2K0L](#)