

PLUG: MM-212-031-161-41WQ RECEPTACLE: MK-2J2-031-475-2200

PLU	IG	REC	CEPTACLE	XX-XXX-XXX-X	X-XXXX-
	SER	IES		]	
	.050" Rugged Metal I/O Connector mates with MK, ML, MM, MN receptacles)		.050" Rugged Metal Surface Mount Connector ( mates with MK, ML, MM, MN plugs)		
	ВО	DY			
2	2-Row (Sizes 9 thru 51*)	2	2-Row (Sizes 9 thru 51*)	'	
1	BODY STYLE: Plug, straight, with ears	J	BODY STYLE: Receptacle, vertical surface mount		
2 3 4	BODY MATERIAL: Polyphenylene Sulfide with electroless nickel shell Polyphenylene Sulfide with electrodeposited cadmium shell  Polyphenylene Sulfide with hard anodized black shell	2 3 4	BODY MATERIAL: Polyphenylene Sulfide with electroless nickel s Polyphenylene Sulfide with electrodeposited cadmium shell  Polyphenylene Sulfide with hard anodized blace		
	SIZ	Έ			
(XX	009, 015, 021, 025, 031, 037, 051*	l		1	
	CONT	ACTS	3		
14 15	TYPE CONTACTS/TERMINATIONS: Pin, straight, solder cup Pin, straight, .500" pigtails (.018 dia) Pin, straight, 1.000" pigtails (.018 dia) Pin, straight, crimped wire	47	TYPE CONTACTS/TERMINATIONS: Socket, vertical smt		
1 3 5 7	PLATING OPTIONS: 50 μ" Au contacts (crimp wire) 50 μ" Au contacts: 10 μ" Au terminations (solder cup, pigtail) 50 μ" Au contacts; Sn/Pb alloy terminations (pigtail) 50 μ" Au contacts; SAC305 terminations (pigtail)	5 7	PLATING OPTIONS: 50 μ" Au contacts; Sn/Pb alloy terminations Σ 50 μ" Au contacts; SAC305 terminations		
	HARD	WARI	Ē		
22 41 42 43 44 45	STYLE OF HARDWARE: None Two fixed jacknut assemblies Two turning jackscrews, allen head, retaining ring Two long turning jackscrews, allen head, retaining ring Two turning jackscrews, slot head, retaining ring Two long turning jackscrews, slot head, retaining ring Two turning jackscrews, allen head, captivated** Keying hardware, see options below	00 22 41 99	STYLE OF HARDWARE: None Two fixed jacknut assemblies Two turning jackscrews, allen head, retaining ring Keying hardware, see options below	•	
00	POLARIZATION / WIRING: None For wiring codes, see page MA-3 & MA-4	00	POLARIZATION / WIRING None		
	OPTI	ONS			
KSX	X Two turning jackscrews. See page MA-6 for keying options	900	X Two fixed jacknuts and interfacial sealing ga See page MA-6 for keying options Interfacial sealing gasket	sket.	

<sup>\*</sup> = 2 row, 51 position connectors are non-Mil Spec interface.

oxtimes = Option not RoHS compliant

<sup>\*\* =</sup> Captive hardware is factory installed and non-removable.



PLUG: MK 2D2-031-335-260S RECEPTACLE: MK 2E2-031-445-260S

XX\_XXX\_XXX\_XXX\_XXXX\_XXX BODY CONTACTS OPTIONS SERIES SIZE HARDWARE

#### **PLUG**

#### **SERIES**

MK .050" Rugged Metal PC Board Mount Connector

#### **BODY**

- 2 2-Row (Sizes 9 thru 37)
- 3 3-Row (Size 51 & 69)
- 4 4-Row (Size 100)

BODY STYLE:

 Plug, right angle, rear panel mount with fluorosilicone o-ring

**BODY MATERIAL:** 

- 2 Electroless nickel shell w/ PPS insulator
- 3 Electrodeposited cadmium shell w/ PPS insulator
- 4 Hard anodized black shell w/ PPS insulator

## SIZE

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

#### **CONTACTS**

TYPE CONTACTS/TERMINATIONS:

- 32 Pin, right angle, PCB leads, .109'
- 33 Pin, right angle, PCB leads, .140"
- 34 Pin, right angle, PCB leads, .172"

PLATING OPTIONS:

- 3 50 µ" Au contacts
- 5 50 μ" Au contacts; Sn/Pb alloy terminations ⊠
- 7 50,u" Au contacts; SAC305 terminations

# **HARDWARE**

STYLE OF HARDWARE:

- 00 None
- 24 Two fixed jacknuts, rear panel mount, .040" panel thickness (64\*)
- Two fixed jacknuts, rear panel mount, .060" panel thickness (66\*)
- Two fixed jacknuts, rear panel mount, .070" panel thickness (68\*)
- 29 Two fixed jacknuts, rear panel mount, .080" panel thickness (69\*)

POLARIZATION:

0S Standard body polarization

## **OPTIONS**

- EMI gasket (in lieu of fluorosilicone o-ring)
- 0B7 Threaded inserts in mounting holes
- 0FW Threaded inserts in mounting holes and EMI gasket (in lieu of fluorosilicone o-ring)

#### **NOTES**

See page MA-10 for rear panel mounting dimensions. See page MA-7 for rear panel hardware dimensions.

- \* = Use numbers in parenthesis when ordering size 100.
- = Option not RoHS compliant

## RECEPTACLE

#### **SERIES**

MK .050" Rugged Metal PC Board Mount Connector

#### **BODY**

- 2 2-Row (Sizes 9 thru 37)
- 3 3-Row (Size 51 & 69)
- 4 4-Row (Size 100)

BODY STYLE:

- E Receptacle, right angle, rear panel mount with fluorosilicone o-ring and interfacial seal
  - BODY MATERIAL:
- 2 Electroless nickel shell w/ PPS insulator
- B Electrodeposited cadmium shell w/ PPS insulator
- 4 Hard anodized black shell w/ PPS insulator

## SIZE

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

#### CONTACTS

- TYPE CONTACTS/TERMINATIONS:
- 43 Socket, right angle, PCB leads, .109"
- 44 Socket, right angle, PCB leads, .140"
- 45 Socket, right angle, PCB leads, .172"
  - PLATING OPTIONS:
  - 3 50 µ" Au contacts
  - 5 50 μ" Au contacts; Sn/Pb alloy terminations Σ
- 7 50,u" Au contacts; SAC305 terminations

# HARDWARE

STYLE OF HARDWARE:

- 00 None
- 24 Two fixed jacknuts, rear panel mount, .040" panel thickness (64\*)
- Two fixed jacknuts, rear panel mount, .060" panel thickness (66\*)
- Two fixed jacknuts, rear panel mount, .070" panel thickness (68\*)
- 29 Two fixed jacknuts, rear panel mount, .080" panel thickness (69\*)
  - POLARIZATION:
- 0S Standard body polarization

## OPTIONS

- EMI EMI gasket (in lieu of fluorosilicone o-ring)
- 0B7 Threaded inserts in mounting holes
- 0FW Threaded inserts in mounting holes and EMI gasket (in lieu of fluorosilicone o-ring)

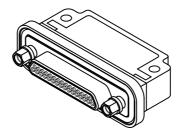
#### NOTES

See page MA-10 for rear panel mounting dimensions. See page MA-7 for rear panel hardware dimensions.

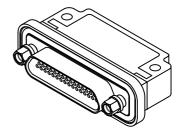


# Rear Panel Mount, Right Angle Boardmount

.050" 9 thru 100 Contacts

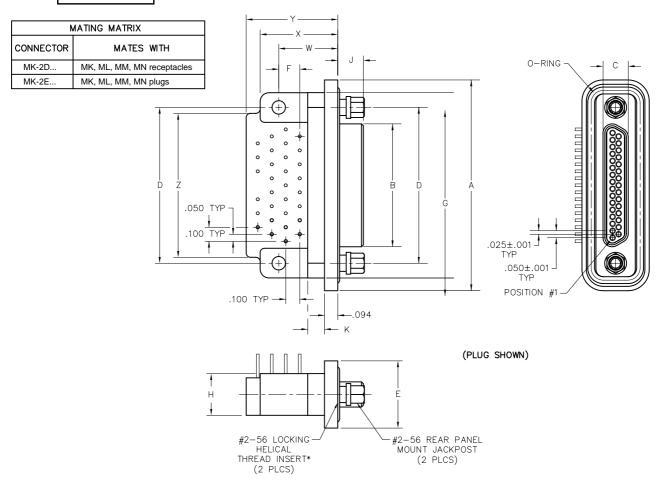


MK-2D2-031-335-260S (PLUG)



MK-2E2-031-445-260S (RECEPTACLE)

# MK



DIMENSIONS																				
SIZE	CONTACT	Α		RCPT	PLUG		D	Е	F	G	Н	PLUG	J RCPT	к	w	X MAX	Y MAX	Z	HARDWARE	MOUNTING HOLE
	1.0113	0.5.7	MAX	MAX	MAX	MAX	F.0.F		000	775		1 200	1.01		774			775		HOLL
9		.957	.334	.400			.565		.020	.775					.371	.540	.540	.775		
15		1.107	.484	.550			.715			.925								.925		.096 DIA
21	2	1.257	.634	.700	.185	.251	.865	.480	.150	1.075	.298					.560	.560	1.075		OR #2-56 UNC
25	1.35	1.357	.734	.800			.965			1.175								1.175	#2-56 UNC	THREADED
31		1.507	.884	.950			1.115			1.325		.183	.195	.120	.421		.660	1.030	ן וחט	INSERT
37	1.65	1.657	1.034	1.100	1		1.265			1.475	5						.000	1.180		
51	3	1.657	.984	1.050	.228	.294	1.215	.523	.150	1.425	.341					.550	.770	1.220		
69	1.95	1.957	1.284	1.350	1.220	.294	1.515	.525	123 .130	1.725	.341					.550	.870	1.450		
100	4	2.383	1.384	1.508	.271	.394	1.800	.600	.200	2.160	.381			.176	.577	.775	1.180	1.810	#4-40 UNC THD	.125 DIA OR #4-40 UNC THREADED INSERT

<sup>\*\* =</sup> SHELL ACCEPTS .190 MAX #2-56 SCREW LENGTH (.220 MAX #4-40 SCREW LENGTH).



# Cable to Board (Vertical Surface Mount)

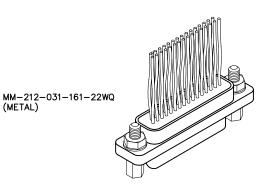
.050" 9 thru 51 Contacts

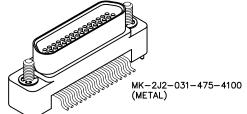
**Rugged Surface Mount** 

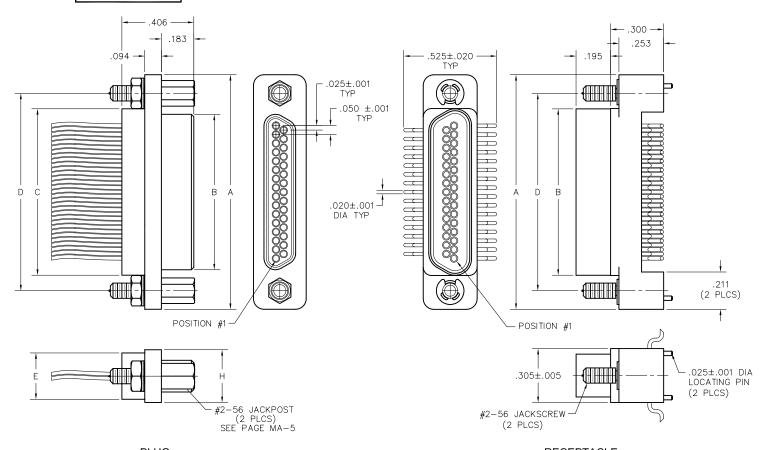
MK

Rugged Cable

MM







PLUG RECEPTACLE

						DIMENSIONS						
	CONTACT		В				E					
SIZE	ROWS	Α	PLUG MAX	RCPT MAX	С	D	POTTING WELL MAX	I	HARDWARE			
9		.775	.334	.400	.390	.565	.270	.298	#2-56 UNC THD (.092 DIA THRU)			
15		.925	.484	.550	.540	.715						
21		1.075	.634	.700	.690	.865						
25	2	1.175	.734	.800	.790	.965						
31		1.325	.884	.950	.940	1.115						
37		1.475	1.034	1.100	1.090	1.265						
51*		1.825	1.384	1.450	1.440	1.615						

<sup>\* = 51</sup> POSITION CONNECTORS ARE NON-MIL SPEC INTERFACE

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**Authorized Distributor** 

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# AirBorn:

MK-2J2-037-475-2200 MK-2J2-031-475-2200