

# One Row - Female

The PowerMod® connector family offers minimum size and high power. The high performance contacts and insulator are rated for 30 amps continuous. Applications requiring lower operating temperatures can be de-rated using our current-temperature chart.

The one row female PowerMod connectors are offered in 3, 4, 6 and 8 circuit sizes. The connectors are available with straight crimp, straight PCB or right angle PCB contacts.

APP connectors are manufactured using the finest materials and world-class manufacturing processes. They embody the highest quality in the industry and meet all applicable industry standards.

### **FEATURES**

- High performance contacts Rated to 30 amps per IEC 512-3
- Mechanically polarized housings Only mate one-way, ensuring proper mating
- High reliability positive retention latches

Are made from stainless steel to provide optimum performance

• PCB, panel or cable mounting

A wide variety of contact styles with optional mounting brackets, panel clips and back-shell hoods provide broad design flexibility



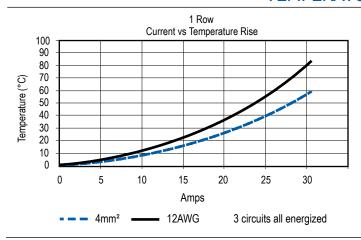
### **SPECIFICATIONS**

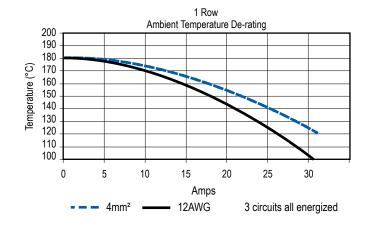
Electrical		Mechanical	
Current Rating		Mating Cycles No Load per IEC 512-5	1,000
IEC 512-3, UL 1977 (Amperes)	30	Mating / Unmating Force per IEC 512-13	10 oz (3N) avg.
UL / CSA Voltage Rating (AC/DC)	600	Contact Retention per IEC 512-8	18 lb (80N) Crimp
Creepage / Clearance Distance	3.2 mm (.125") Min		9 lb (40N) PCB Connector
Contact Resistance per IEC 512-2	3 milliohms	Materials	
Dielectric Withstanding Voltage (AC)	2,200	Insulator	PPS UL94 V-0, material group IIIa
Contact Wire Range (AWG)	#24 to #12	Socket Body	Copper alloy, 200 µ inch Sn Bright over Ni
(mm²) *	0.25 to 4.0	Socket Contact	BeCu, 30 μ inch Au over Ni
Operating Temperature (°C)	-55° to 180°	Retention Clips	Stainless steel
(°F)	-67° to 356°	Hoods	PBT UL94 V-0
		ROHS V APP C US File No. E26226 * Stra	anding, IEC class 5 or lower

### ORDERING INFORMATION

### PowerMod Part Number Plan - One Row Female **Tooling** Series Rows # Poles Gender Contact Latch Mounting **Customized Connector** Part Number Mil-Standard Description PM1 03 F ВА L СН Χ Χ Χ TM0001 M22520/1-01 AF8 hand tool TP0001 WA27F pneumatic crimp tool N/A Consult factory for options OO - None Turret & Locator for TM0001 & TP0001 03, 04, 06, 08 Poles SB - R/A PCB Snap Bracket TL0001 N/A For pin contacts HB - R/A PCB Bracket with Hole TL0002 N/A For socket contacts F - Female ST - Self-tapping screws for straight PCB mount PM1000G1 N/A Four indent hand SP - Push in fastener for straight PCB mount OO - None (Crimp contacts ordered separately) tool with locator CH - With clam-shell hood BA - Straight PCB Solder Standard Length-RoHS PM1002G1 N/A Contact insertion tool PC - Panel Clip RA - R/A PCB Solder Standard Length-RoHS MC - Mounting Clip PM1003G1 N/A Contact extraction tool SC - Screw for 1.6mm panel mount L - Connector with latch (standard for contact type OO) O - No latch

# **TEMPERATURE CHARTS**

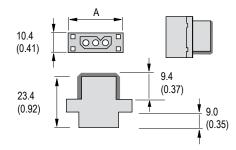




# DIMENSIONS - mm(in.)

### **Cable Connector**

ROWS CONTACTS	-/- mm	\- in.
1 - 03	28.5	1.12
1 - 04	33.5	1.32
1 - 06	43.5	1.71
1 - 08	53.5	2.11



See accessory section for panel clip and mounting clip cut-out dimensions.

### ORDERING INFORMATION

### **Cable Connector**

Part	
Number	Description
PM103FOOLOO	1x3 FEMALE Cable Connector
PM104FOOLOO	1x4 FEMALE Cable Connector
PM106FOOLOO	1x6 FEMALE Cable Connector
PM108FOOLOO	1x8 FEMALE Cable Connector

# **Panel Mount With Mounting Clip**

Part	
Number	Description
PM103FOOLMC	1x3 FEMALE Cable Connector
PM104FOOLMC	1x4 FEMALE Cable Connector
PM106FOOLMC	1x6 FEMALE Cable Connector
PM108FOOLMC	1x8 FEMALE Cable Connector

### With Clam Shell Hood & Strain Relief

Part	
Number	Description
PM103FOOLCH	1x3 FEMALE Cable Connector
PM104FOOLCH	1x4 FEMALE Cable Connector
PM106FOOLCH	1x6 FEMALE Cable Connector
DM108EOOLCH	1v8 FEMALE Cable Connector

### **Panel Mount With Screws**

Part	
Number	Description
PM103FOOLSC	1x3 FEMALE Cable Connector
PM104FOOLSC	1x4 FEMALE Cable Connector
PM106FOOLSC	1x6 FEMALE Cable Connector
PM108FOOLSC	1x8 FEMALE Cable Connector

### With Snap-in Panel Clip

Part	
Number	Description
PM103FOOLPC	1x3 FEMALE Cable Connector
PM104FOOLPC	1x4 FEMALE Cable Connector
PM106FOOLPC	1x6 FEMALE Cable Connector
PM108FOOLPC	1x8 FEMALE Cable Connector

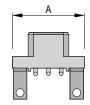
### **Crimp Contacts**

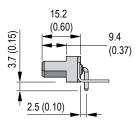
Part		Win	е
Number	Description	AWG	sq. mm
PM16S2024S32	Socket	#24 / 20	0.50 / 0.75
PM16S1620S32	Socket	#20 / 16	0.50 / 1.5
PM16S1416S32	Socket	#16 / 14	1.5 / 2.5
PM16S12S32	Socket	#12	2.5 / 4.0

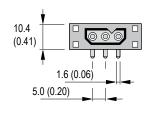
# DIMENSIONS - mm(in.)

### 1 Row - PCB Right Angle Connector



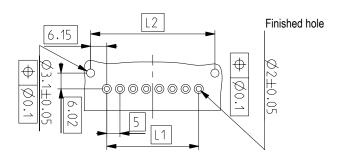






### 1 Row - PCB Hole Layout For Right Angle Connector

ROWS	Α		L1		L2	
CONTACTS	mm	in.	mm	in.	mm	in.
1 - 03	28.5	1.12	10	0.39	22.3	0.88
1 - 04	33.5	1.32	15	0.59	27.3	1.07
1 - 06	43.5	1.71	25	0.98	37.3	1.47
1 - 08	53.5	2.11	35	1.38	47.3	1.86



## ORDERING INFORMATION

### With Latch

# Number Description PM103FRALOO 1x3 FEMALE Right Angle PCB Solder PM104FRALOO 1x4 FEMALE Right Angle PCB Solder PM106FRALOO 1x6 FEMALE Right Angle PCB Solder PM108FRALOO 1x8 FEMALE Right Angle PCB Solder

### **Snap Bracket & Latch**

|--|

Number	Description
PM103FRALSB	1x3 FEMALE Right Angle PCB Solder
PM104FRALSB	1x4 FEMALE Right Angle PCB Solder
PM106FRALSB	1x6 FEMALE Right Angle PCB Solder
PM108FRALSB	1x8 FEMALE Right Angle PCB Solder

### **Bracket With Hole & Latch**

Part
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Number	Description	
PM103FRALHB	1x3 FEMALE	Right Angle PCB Solder
PM104FRALHB	1x4 FEMALE	Right Angle PCB Solder
PM106FRALHB	1x6 FEMALE	Right Angle PCB Solder
PM108FRALHR	1v8 FFMAI F	Right Angle PCR Solder

### No Latch

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Number	Description
PM103FRAOOO	1x3 FEMALE Right Angle PCB Solder
PM104FRAOOO	1x4 FEMALE Right Angle PCB Solder
PM106FRAOOO	1x6 FEMALE Right Angle PCB Solder
PM108FRAOOO	1x8 FEMALE Right Angle PCB Solder

### Snap Bracket & No Latch

### Part

Number	Description
PM103FRAOSB	1x3 FEMALE Right Angle PCB Solder
PM104FRAOSB	1x4 FEMALE Right Angle PCB Solder
PM106FRAOSB	1x6 FEMALE Right Angle PCB Solder
PM108FRAOSB	1x8 FEMALE Right Angle PCB Solder

### **Bracket With Hole & No Latch**

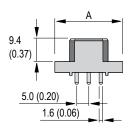
### Part

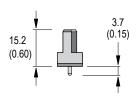
Number	Description
PM103FRAOHB	1x3 FEMALE Right Angle PCB Solder
PM104FRAOHB	1x4 FEMALE Right Angle PCB Solder
PM106FRAOHB	1x6 FEMALE Right Angle PCB Solder
PM108FRAOHB	1x8 FEMALE Right Angle PCB Solder

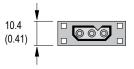
PCB contacts and mounting accessories are designed for a board thickness of 1.60mm (.063) with a contact protrusion of 2.10 (.083). Other contact lengths are available upon request.

# DIMENSIONS - mm(in.)

### 1 Row - PCB Straight Solder Connector



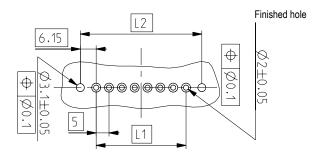






### 1 Row - PCB Hole Layout For Straight Solder Connector

ROWS	Α		L1		L2	
CONTACTS	mm	in.	mm	in.	mm	in.
1 - 03	28.5	1.12	10	0.39	22.3	0.88
1 - 04	33.5	1.32	15	0.59	27.3	1.07
1 - 06	43.5	1.71	25	0.98	37.3	1.47
1 - 08	53.5	2.11	35	1.38	47.3	1.86



# ORDERING INFORMATION

### With Latch No Latch

Part	
Number	Description
PM103FBALOO	1x3 FEMALE Straight PCB Solder
PM104FBALOO	1x4 FEMALE Straight PCB Solder
PM106FBALOO	1x6 FEMALE Straight PCB Solder
PM108FBALOO	1x8 FEMALE Straight PCB Solder

### Push On PCB Fastener & Latch

Part	
Number	Description
PM103FBALSP	1x3 FEMALE Straight PCB Solder
PM104FBALSP	1x4 FEMALE Straight PCB Solder
PM106FBALSP	1x6 FEMALE Straight PCB Solder
PM108FBALSP	1x8 FEMALE Straight PCB Solder

### **Self-tapping Screws For PCB Mount & Latch**

Part	
Number	Description
PM103FBALST	1x3 FEMALE Straight PCB Solder
PM104FBALST	1x4 FEMALE Straight PCB Solder
PM106FBALST	1x6 FEMALE Straight PCB Solder
PM108FRALST	1x8 FEMALE Straight PCB Solder

### NO Laten

Part

rail	
Number	Description
PM103FBAOOO	1x3 FEMALE Straight PCB Solder
PM104FBAOOO	1x4 FEMALE Straight PCB Solder
PM106FBAOOO	1x6 FEMALE Straight PCB Solder
PM108FBAOOO	1x8 FEMALE Straight PCB Solder

### Push On PCB Fastener & No Latch

· air		
Number	Description	
PM103FBAOSP	1x3 FEMALE Straight PCB Solder	
PM104FBAOSP	1x4 FEMALE Straight PCB Solder	
PM106FBAOSP	1x6 FEMALE Straight PCB Solder	
PM108FBAOSP	1x8 FEMALE Straight PCB Solder	

### Self-tapping Screws For PCB Mount & No Latch

Part		
Number	Description	
PM103FBAOST	1x3 FEMALE Straight PCB Solder	
PM104FBAOST	1x4 FEMALE Straight PCB Solder	
PM106FBAOST	1x6 FEMALE Straight PCB Solder	
PM108FBAOST	1x8 FEMALE Straight PCB Solder	

PCB contacts and mounting accessories are designed for a board thickness of 1.60mm (.063) with a contact protrusion of 2.10 (.083). Other contact lengths are available upon request.

All Data Subject To Change Without Notice 15250 DS-PM1RF REV12