

# PowerMod<sup>®</sup> 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.

PowerMod Part Number Plan - One Row Female

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# **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 $\mu$ 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
		CRUB US File No. E26226 * Stra	anding, IEC class 5 or lower

# ORDERING INFORMATION

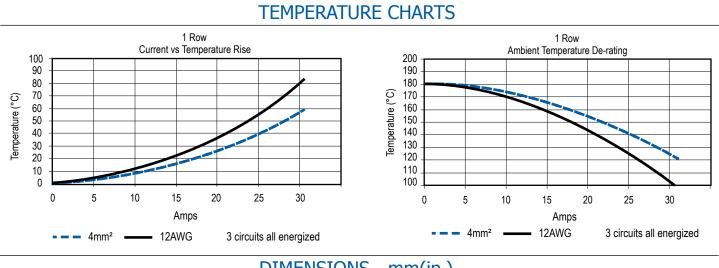
Tooling

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Descister	Oleveland		Part		nector	zed Cor	Custom		Mounting	Latch	Contact	Gender	# Poles	Rows	Series
					Х	Х	Х	-	СН	1	RΑ	F	0.3	1	РM
					Λ	Λ	~	_			вл		00		1 101
WA27F pneun		N//	TP0001		options	ctory fo	Consult fa								1
& TP0001	for TM0001	.ocato	Turret & L						OO - None						
For pin contac		N//	TL0001			t	p Bracke	CB Sn	SB - R/A PC					08 Poles	03, 04, 06
For socket cor		N//	TL0002			Hole	cket with	CB Bra	HB - R/A PC						
				ount	PCB mo	straigh	crews fo	pping	ST - Self-tar						F - Female
Four indent ha		61 N//	PM1000G	nt	B moun	aight P	ner for st	n faste	SP - Push ir						
tool with locate						<b>J</b>					,,			· ·	
Contact insert	1	61 N//	PM1002G					Clin	PC - Panel (						
Contact extrac		61 N//	PM1003G				r				S	ngth-RoH	Standard Le	CB Solde	RA - R/A
						l mount									
						l mount	mm pane	for 1.	SC - Screw						
in in in in in in in in in in in in in i	For pin conta For socket co Four indent h tool with local Contact inser	A For pin conta A For pin conta A For pin conta A For socket cc A Four indent h tool with loca A Contact inser	Mil-Standard     Description       M22520/1-01     AF8 hand too       N/A     WA27F pneu       ocator for TM0001 & TP0001       N/A     For pin conta       N/A     For pin conta       N/A     For socket co       1     N/A     Four indent h tool with loca       1     N/A     Contact inser	Number     Mil-Standard     Description       TM0001     M22520/1-01     AF8 hand too       TP0001     N/A     WA27F pneu       Turret & Locator for TM0001 & TP0001     TP0001       TL0001     N/A     For pin conta       TL0002     N/A     For socket co       PM1000G1     N/A     Four indent h tool with local       PM1002G1     N/A     Contact inser	Part <u>Number Mil-Standard Description</u> TM0001 M22520/1-01 AF8 hand too TP0001 N/A WA27F pneu Turret & Locator for TM0001 & TP0001 TL0001 N/A For pin conta TL0002 N/A For socket co punt t PM1000G1 N/A Four indent h tool with locar PM1002G1 N/A Contact inser	x     Number     Mil-Standard     Description       X     TM0001     M22520/1-01     AF8 hand too       r options     TUrret & Locator for TM0001     WA27F pneu       TL0001     N/A     For pin conta       TL0002     N/A     For socket co       t PCB mount     PM1000G1     N/A     Four indent h       CB mount     PM1000G1     N/A     Contact inser       PM1003G1     N/A     Contact extra	x x   x x   actory for options TM0001 M22520/1-01 AF8 hand too WA27F pneu   et Turret & Locator for TM0001 TP0001   Hole TL0001 N/A For pin conta   r straight PCB mount raight PCB mount PM1000G1 N/A Four indent h tool with loca   PM1002G1 N/A Contact inser PM1003G1 N/A Contact extra	Customized Connector   Part     X   X   X     X   X   X     Consult factory for options   TM0001   M22520/1-01   AF8 hand toor     TP0001   N/A   W427F pneu     Turret & Locator for TM0001 & TP0001   TUrret & Locator for TM0001 & TP0001     ap Bracket   TL0001   N/A   For pin conta     acket with Hole   TL0002   N/A   For socket co     screws for straight PCB mount   PM1000G1   N/A   Four indent h     hell hood   PM1002G1   N/A   Contact inser     pm   PM1003G1   N/A   Contact extra	Customized Connector   Part     - X X X   Number   Mil-Standard   Description     TM0001   M22520/1-01   AF8 hand too     Consult factory for options   TW0001   N/A   W27F pneu     Description   N/A   For pin conta   Turret & Locator for TM0001 & TP0001     CB Snap Bracket   TL0001   N/A   For pin conta     Description   TL0002   N/A   For socket conta     Consult factory for straight PCB mount fastener for straight PCB mount lam-shell hood   PM1000G1   N/A   Four indent h tool with loca     Clip   PM1002G1   N/A   Contact inser   PM1003G1   N/A   Contact extra	Mounting Customized Connector Part   C H - X X   Consult factory for options TM0001 M22520/1-01 AF8 hand too   OO - None Turret & Locator for TM0001 & TP0001 N/A Wa27F pneu   OO - None Turret & Locator for TM0001 & TP0001 TL0001 N/A For pin conta   SB - R/A PCB Snap Bracket TL0002 N/A For pin conta   HB - R/A PCB Bracket with Hole TL0002 N/A For socket oc   ST - Self-tapping screws for straight PCB mount PM1000G1 N/A Four indent h tool with loca   PC - Panel Clip PM1002G1 N/A Contact inser	Latch   Mounting   Customized Connector   Part     L   C H   -   X   X     Consult factory for options   Consult factory for options   Mil-Standard   Description     OO - None   Consult factory for options   Turret & Locator for TM0001   M22520/1-01   AF8 hand toc     SB - R/A PCB Snap Bracket   Turret & Locator for TM0001 & TP0001   Turret & Locator for TM0001 & TP0001     ST - Self-tapping screws for straight PCB mount   TL0002   N/A   For socket cc     SP - Push in fastener for straight PCB mount   CH - With clam-shell hood   PM1000G1   N/A   Four indent h tool with loca     PC - Panel Clip   MC - Mounting Clip   PM1002G1   N/A   Contact extra	Contact   Latch   Mounting   Customized Connector   Part     BA   L   CH   -   X   X     Consult factory for options   Consult factory for options   TM0001   M22520/1-01   AF8 hand too     OO - None   Consult factory for options   Turret & Locator for TM0001 & TP0001   N/A   Wa27F pneu     OO - None   SB - R/A PCB Snap Bracket   Turret & Locator for TM0001 & TP0001   TL0001 N/A   For pin conta     HB - R/A PCB Bracket with Hole   ST - Self-tapping screws for straight PCB mount   TL0002 N/A   For socket co     SP - Push in fastener for straight PCB mount   SP - Push in fastener for straight PCB mount   PM1000G1 N/A   Four indent h tool with loca     SN   PC - Panel Clip   PM1002G1 N/A   Contact inser   PM1003G1 N/A   Contact extraited of the top of the	Gender   Contact   Latch   Mounting   Customized Connector   Part     F   BA   L   CH   -   X   X   TM0001   M22520/1-01   AF8 hand too     OO - None   Consult factory for options   OO - None   Turret & Locator for TM0001 & TP0001   N/A   For pin conta     SB - R/A PCB Snap Bracket   HB - R/A PCB Bracket with Hole   TL0001   N/A   For pin conta     ST - Self-tapping screws for straight PCB mount   SP - Push in fastener for straight PCB mount   PM1000G1   N/A   Four indent h     d separately)   C - Panel Clip   MC - Mounting Clip   PM1002G1   N/A   Contact inser	# Poles   Gender   Contact   Latch   Mounting   Customized Connector   Part     03   F   BA   L   C H   -   X   X   TM0001   M22520/1-01   AF8 hand too     00 - None   Consult factory for options   OO - None   Consult factory for options   Turret & Locator for TM0001 & TP0001   N/A   For pin conta     00 - None   SB - R/A PCB Snap Bracket   HB - R/A PCB Bracket with Hole   Turret & Locator for TM0001 & TP0001   Turret & Locator for TM0001 & TP0001     ST - Self-tapping screws for straight PCB mount   SP - Push in fastener for straight PCB mount   PM1000G1 N/A   Four indent h     Number   CH - With clam-shell hood   PC - Panel Clip   PM1002G1 N/A   Contact inser     Standard Length-RoHS   MC - Mounting Clip   MC - Mounting Clip   PM1003G1 N/A   Contact extra	Rows   # Poles   Gender   Contact   Latch   Mounting   Customized Connector   Part     1   0.3   F   B.A   L   C.H   -   X   X   X     1   0.3   F   B.A   L   C.H   -   X   X   X     0   OO - None   Consult factory for options   OO - None   Turret & Locator for TM0001   M22520/1-01   AF8 hand too     0.08 Poles   OO - None   SB - R/A PCB Snap Bracket   HB - R/A PCB Bracket with Hole   Turret & Locator for TM0001   TU0001   N/A   For pin contacts     a   C   Crimp contacts ordered separately)   SF - Push in fastener for straight PCB mount   SF - Push in fastener for straight PCB mount   PM1000G1   N/A   Four indent h tool with local     pC - Panel Clip   MC - Mounting Clip   MC - Mounting Clip   PM1002G1   N/A   Contact extra

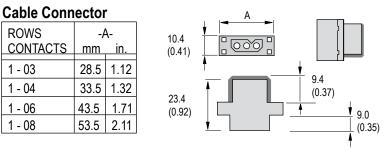
L - Connector with latch (standard for contact type OO)

O - No latch

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# DIMENSIONS - mm(in.)



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

# ORDERING INFORMATION

## **Cable Connector**

## Panel Mount With Mounting Clip

#### With Clam Shell Hood & Strain Relief

Part		Part		Part	
Number	Description	Number	Description	Number	Description
PM103FOOLOO	1x3 FEMALE Cable Connector	PM103FOOLMC	1x3 FEMALE Cable Connector	PM103FOOLCH	1x3 FEMALE Cable Connector
PM104FOOLOO	1x4 FEMALE Cable Connector	PM104FOOLMC	1x4 FEMALE Cable Connector	PM104FOOLCH	1x4 FEMALE Cable Connector
PM106FOOLOO	1x6 FEMALE Cable Connector	PM106FOOLMC	1x6 FEMALE Cable Connector	PM106FOOLCH	1x6 FEMALE Cable Connector
PM108FOOLOO	1x8 FEMALE Cable Connector	PM108FOOLMC	1x8 FEMALE Cable Connector	PM108FOOLCH	1x8 FEMALE Cable Connector

## Panel Mount With Screws

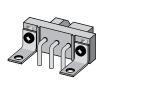
## With Snap-in Panel Clip

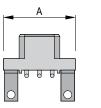
Crimp	Contacts
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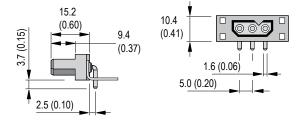
Part		Part		Part		Wir	re
Number	Description	Number	Description	Number	Description	AWG	sq. mm
PM103FOOLSC	1x3 FEMALE Cable Connector	PM103FOOLPC	1x3 FEMALE Cable Connector	PM16S2024S32	Socket	#24 / 20	0.50 / 0.75
PM104FOOLSC	1x4 FEMALE Cable Connector	PM104FOOLPC	1x4 FEMALE Cable Connector	PM16S1620S32	Socket	#20 / 16	0.50 / 1.5
PM106FOOLSC	1x6 FEMALE Cable Connector	PM106FOOLPC	1x6 FEMALE Cable Connector	PM16S1416S32	Socket	#16 / 14	1.5 / 2.5
PM108FOOLSC	1x8 FEMALE Cable Connector	PM108FOOLPC	1x8 FEMALE Cable Connector	PM16S12S32	Socket	#12	2.5 / 4.0

# DIMENSIONS - mm(in.)

## 1 Row - PCB Right Angle Connector

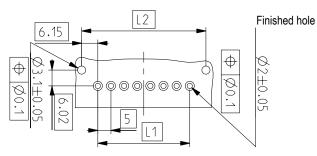






# 1 Row - PCB Hole Layout For Right Angle Connector

ROWS CONTACTS	A mm	in.	L1 mm_in.		L2 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 - 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

Part	
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**

Description
1x3 FEMALE Right Angle PCB Solder
1x4 FEMALE Right Angle PCB Solder
1x6 FEMALE Right Angle PCB Solder
1x8 FEMALE Right Angle PCB Solder

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

Part	
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

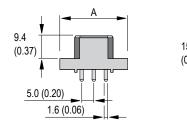
#### Bracket With Hole & No Latch

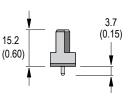
Part		Part
Number	Description	Number Description
PM103FRALHB PM104FRALHB PM106FRALHB PM108FRALHB	1x3 FEMALE Right Angle PCB Solder 1x4 FEMALE Right Angle PCB Solder 1x6 FEMALE Right Angle PCB Solder 1x8 FEMALE Right Angle PCB Solder	PM103FRAOHB   1x3 FEMALE   Right Angle PCB Solder     PM104FRAOHB   1x4 FEMALE   Right Angle PCB Solder     PM106FRAOHB   1x6 FEMALE   Right Angle PCB Solder     PM108FRAOHB   1x8 FEMALE   Right Angle PCB Solder

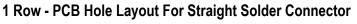
PCB contacts and mounting accessories are designed for a board thickness of 1.60mm (.063) with a contact protrusion of 2.10 (.083). Other contact lengths are available upon request.

# DIMENSIONS - mm(in.)

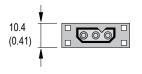
#### 1 Row - PCB Straight Solder Connector

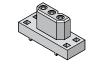


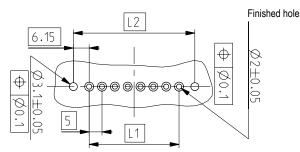




ROWS	A		L1		L2	
CONTACTS	mm	in.	mm	in.	mm	in.
1 - 03	28.5	1.12	10	0.39	22.3	0.88
1 - 04	33.5	1.32	15	0.59	27.3	1.07
1 - 06	43.5	1.71	25	0.98	37.3	1.47
1 - 08	53.5	2.11	35	1.38	47.3	1.86







# ORDERING INFORMATION

#### With Latch

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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

Description
1x3 FEMALE Straight PCB Solder
1x4 FEMALE Straight PCB Solder
1x6 FEMALE Straight PCB Solder
1x8 FEMALE Straight PCB Solder

## Self-tapping Screws For PCB Mount & Latch

Part		Part	
Number	Description	Number	Description
PM103FBALST	1x3 FEMALE Straight PCB Solder	PM103FBAOST	1x3 FEMALE Straight PCB Solder
PM104FBALST	1x4 FEMALE Straight PCB Solder	PM104FBAOST	1x4 FEMALE Straight PCB Solder
PM106FBALST	1x6 FEMALE Straight PCB Solder	PM106FBAOST	1x6 FEMALE Straight PCB Solder
PM108FBALST	1x8 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

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#### No Latch

Part	
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

Part	
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