

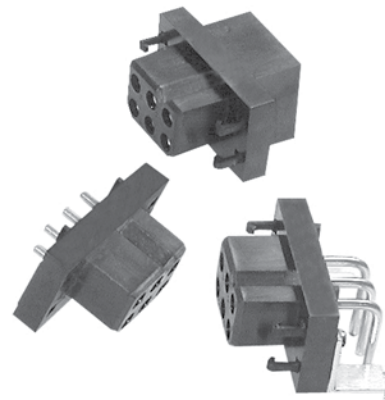
The PowerMod® connector family offers minimum size and high power. The high performance contacts and insulator are rated for 30 amps continuous. Applications requiring lower operating temperatures can be de-rated using our current-temperature chart.

The two row female PowerMod connectors are offered in 6, 8, 12 and 16 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



US File No. E26226

* Stranding, IEC class 5 or lower

ORDERING INFORMATION

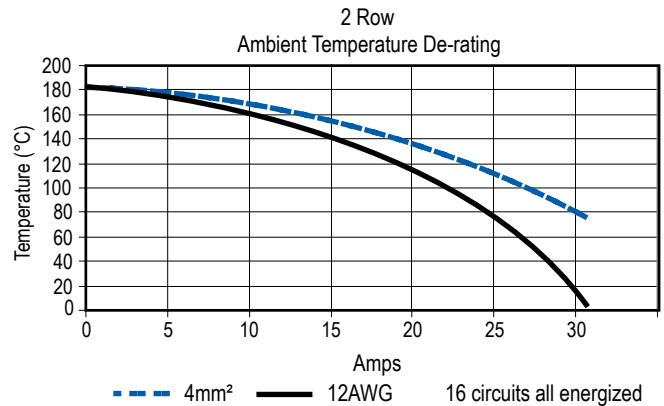
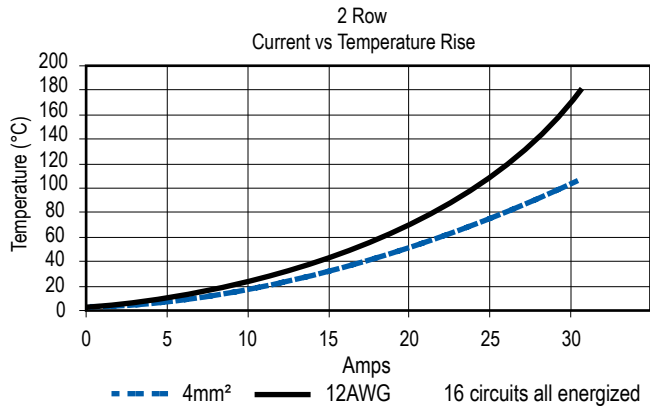
PowerMod Part Number Plan - Two Row Female

Series	Rows	# Poles	Gender	Contact	Latch	Mounting	Customized Connector			
P M	2	06	F	B A	L	C H	-	X	X	X
							Consult factory for options			
OO - None SB - R/A PCB Snap Bracket HB - R/A PCB Bracket with Hole ST - Self-tapping screws for straight PCB mount SP - Push in fastener for straight PCB mount CH - With clam-shell hood PC - Panel Clip MC - Mounting Clip SC - Screw for 1.6mm panel mount										
L - Connector with latch (standard for contact type OO) Q - No latch										

Tooling

Part Number	Mil-Standard	Description
TM0001	M22520/1-01	AF8 hand tool
TP0001	N/A	WA27F pneumatic crimp tool
Turret & Locator for TM0001 & TP0001		
TL0001	N/A	For pin contacts
TL0002	N/A	For socket contacts
PM1000G1	N/A	Pneumatic four indent hand tool with locator
PM1002G1	N/A	Contact insertion tool
PM1003G1	N/A	Contact extraction tool

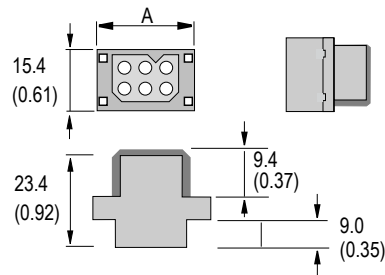
TEMPERATURE RISE CHARTS



DIMENSIONS - mm(in.)

Cable Connector

ROWS CONTACTS	-A- mm in.	
2 - 06	28.5	1.12
2 - 08	33.5	1.32
2 - 12	43.5	1.71
2 - 16	53.5	2.11



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

ORDERING INFORMATION

Cable Connector

Part Number	Description
PM206FOOLOO	2x3 FEMALE Cable Connector
PM208FOOLOO	2x4 FEMALE Cable Connector
PM212FOOLOO	2x6 FEMALE Cable Connector
PM216FOOLOO	2x8 FEMALE Cable Connector

Panel Mount With Mounting Clip

Part Number	Description
PM206FOOLMC	2x3 FEMALE Cable Connector
PM208FOOLMC	2x4 FEMALE Cable Connector
PM212FOOLMC	2x6 FEMALE Cable Connector
PM216FOOLMC	2x8 FEMALE Cable Connector

With Clam Shell Hood & Strain Relief

Part Number	Description
PM206FOOLCH	2x3 FEMALE Cable Connector
PM208FOOLCH	2x4 FEMALE Cable Connector
PM212FOOLCH	2x6 FEMALE Cable Connector
PM216FOOLCH	2x8 FEMALE Cable Connector

Panel Mount With Screws

Part Number	Description
PM206FOOLSC	2x3 FEMALE Cable Connector
PM208FOOLSC	2x4 FEMALE Cable Connector
PM212FOOLSC	2x6 FEMALE Cable Connector
PM216FOOLSC	2x8 FEMALE Cable Connector

With Snap-in Panel Clip

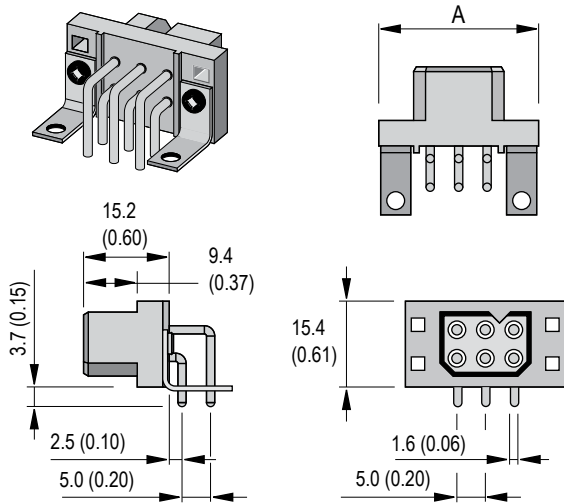
Part Number	Description
PM206FOOLPC	2x3 FEMALE Cable Connector
PM208FOOLPC	2x4 FEMALE Cable Connector
PM212FOOLPC	2x6 FEMALE Cable Connector
PM216FOOLPC	2x8 FEMALE Cable Connector

Crimp Contacts

Part Number	Description	Wire	
		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

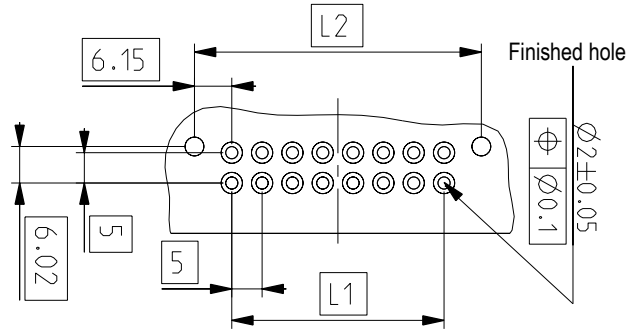
DIMENSIONS - mm(in.)

2 Row - PCB Right Angle Connector



2 Row - PCB Hole Layout For Right Angle Connector

ROWS CONTACTS	A		L1		L2	
	mm	in.	mm	in.	mm	in.
2 - 06	28.5	1.12	10	0.39	22.3	0.88
2 - 08	33.5	1.32	15	0.59	27.3	1.07
2 - 12	43.5	1.71	25	0.98	37.3	1.47
2 - 16	53.5	2.11	35	1.38	47.3	1.86



ORDERING INFORMATION

With Latch

Part Number	Description
PM206FRALOO	2x3 FEMALE Right Angle PCB Solder
PM208FRALOO	2x4 FEMALE Right Angle PCB Solder
PM212FRALOO	2x6 FEMALE Right Angle PCB Solder
PM216FRALOO	2x8 FEMALE Right Angle PCB Solder

No Latch

Part Number	Description
PM206FRAOOO	2x3 FEMALE Right Angle PCB Solder
PM208FRAOOO	2x4 FEMALE Right Angle PCB Solder
PM212FRAOOO	2x6 FEMALE Right Angle PCB Solder
PM216FRAOOO	2x8 FEMALE Right Angle PCB Solder

Right Angle PCB Snap Bracket & Latch

Part Number	Description
PM206FRALSB	2x3 FEMALE Right Angle PCB Solder
PM208FRALSB	2x4 FEMALE Right Angle PCB Solder
PM212FRALSB	2x6 FEMALE Right Angle PCB Solder
PM216FRALSB	2x8 FEMALE Right Angle PCB Solder

Right Angle PCB Snap Bracket & No Latch

Part Number	Description
PM206FRAOSB	2x3 FEMALE Right Angle PCB Solder
PM208FRAOSB	2x4 FEMALE Right Angle PCB Solder
PM212FRAOSB	2x6 FEMALE Right Angle PCB Solder
PM216FRAOSB	2x8 FEMALE Right Angle PCB Solder

Right Angle PCB Bracket With Hole & Latch

Part Number	Description
PM206FRALHB	2x3 FEMALE Right Angle PCB Solder
PM208FRALHB	2x4 FEMALE Right Angle PCB Solder
PM212FRALHB	2x6 FEMALE Right Angle PCB Solder
PM216FRALHB	2x8 FEMALE Right Angle PCB Solder

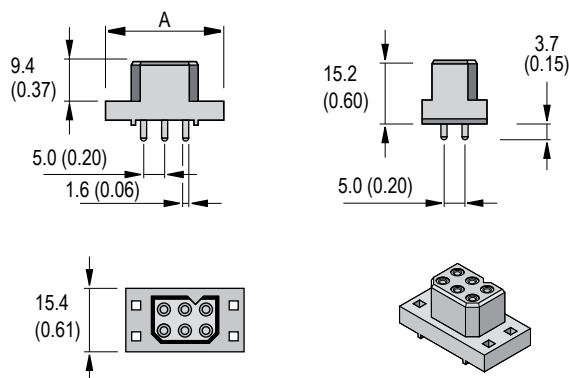
Right Angle PCB Bracket With Hole & No Latch

Part Number	Description
PM206FRAOHB	2x3 FEMALE Right Angle PCB Solder
PM208FRAOHB	2x4 FEMALE Right Angle PCB Solder
PM212FRAOHB	2x6 FEMALE Right Angle PCB Solder
PM216FRAAHB	2x8 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.

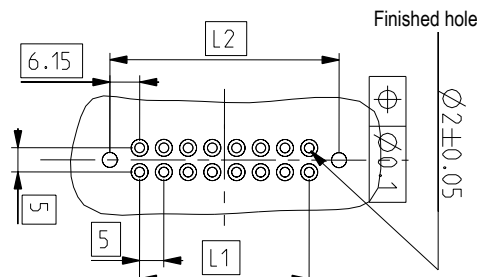
DIMENSIONS - mm(in.)

2 Row - PCB Straight Solder Connector



2 Row - PCB Hole Layout For Straight Solder Connector

ROWS CONTACTS	A		L1		L2	
	mm	in.	mm	in.	mm	in.
2 - 06	28.5	1.12	10	0.39	22.3	0.88
2 - 08	33.5	1.32	15	0.59	27.3	1.07
2 - 12	43.5	1.71	25	0.98	37.3	1.47
2 - 16	53.5	2.11	35	1.38	47.3	1.86



ORDERING INFORMATION

With Latch

Part Number	Description
PM206FBALOO	2x3 FEMALE Straight PCB Solder
PM208FBALOO	2x4 FEMALE Straight PCB Solder
PM212FBALOO	2x6 FEMALE Straight PCB Solder
PM216FBALOO	2x8 FEMALE Straight PCB Solder

No Latch

Part Number	Description
PM206FBAOOO	2x3 FEMALE Straight PCB Solder
PM208FBAOOO	2x4 FEMALE Straight PCB Solder
PM212FBAOOO	2x6 FEMALE Straight PCB Solder
PM216FBAOOO	2x8 FEMALE Straight PCB Solder

Push on PCB Fastener & Latch

Part Number	Description
PM206FBALSP	2x3 FEMALE Straight PCB Solder
PM208FBALSP	2x4 FEMALE Straight PCB Solder
PM212FBALSP	2x6 FEMALE Straight PCB Solder
PM216FBALSP	2x8 FEMALE Straight PCB Solder

Push on PCB Fastener & No Latch

Part Number	Description
PM206FBAOSP	2x3 FEMALE Straight PCB Solder
PM208FBAOSP	2x4 FEMALE Straight PCB Solder
PM212FBAOSP	2x6 FEMALE Straight PCB Solder
PM216FBAOSP	2x8 FEMALE Straight PCB Solder

Self-tapping Screws For PCB Mount & Latch

Part Number	Description
PM206FBALST	2x3 FEMALE Straight PCB Solder
PM208FBALST	2x4 FEMALE Straight PCB Solder
PM212FBALST	2x6 FEMALE Straight PCB Solder
PM216FBALST	2x8 FEMALE Straight PCB Solder

Self-tapping Screws For PCB Mount & No Latch

Part Number	Description
PM206FBAOST	2x3 FEMALE Straight PCB Solder
PM208FBAOST	2x4 FEMALE Straight PCB Solder
PM212FBAOST	2x6 FEMALE Straight PCB Solder
PM216FBAOST	2x8 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.

Mouser Electronics

Authorized Distributor

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