



# ISOLATED POWER/2mm SIGNAL TPCM, TPCF

## SPECIFICATIONS

For complete specifications see [www.samtec.com](http://www.samtec.com)?TPCM or [www.samtec.com](http://www.samtec.com)?TPCF

**Insulator Material:**  
Black Liquid Crystal Polymer



**Terminal Material (TPCM):**  
Phosphor Bronze

**Contact Material (TPCF):**  
Phosphor Bronze

**Plating:**  
Sn or Au over 50µ" (1,27µm) Ni

**Operating Temp Range:**  
-55°C to +105°C with Tin;  
-55°C to +125°C with Gold

**Voltage Rating:**  
Signal Pins: 425 VAC  
Power Pins: 925 VAC

**Insertion Force (TPCF):**  
(Single contact only)  
4oz (1,11N) avg

**Withdrawal Force (TPCF):**  
(Single contact only)  
3oz (0,83N) avg

**RoHS Compliant:**  
Yes

**Processing:**

**Max Processing Temp:**  
230°C for 60 seconds, or  
260°C for 20 seconds 3x  
**Lead-Free Solderable:**  
Yes

CURRENT RATING	
AMBIENT TEMP	TPCF/TPCM
20°C	4.9A
40°C	4.4A
60°C	3.8A
95°C	2.6A

4 POSITIONS IN LINE, GOLD PLATED

TPCM	1	NO. POS. PER ROW	LEAD STYLE	PLATING OPTION	Q	BODY HEIGHT	POWER POS.	RA OPT.
		20, 30, 40, 50 = No. of positions per row + 2 x No. of power positions	Specify LEAD STYLE from chart	-G = 20µ" (0,51µm) Gold on contact, Gold flash on tail -S = 30µ" (0,76µm) Gold on contact, Matte Tin on tail -F = Gold flash on contact, Matte Tin on tail		- "XXX" = Body Height in inches (9,60mm) .378" Min. (Leave blank for -RA)	-4 = Four Per Row -8 = Eight Per Row	-RA = Right Angle (Leave blank for straight tails) Requires lead style -02

  

LEAD STYLE	A (Max)	B	LEAD STYLE	A (Max)	B
-02	(10,08) .397	(9,58) .377	-06	(14,61) .575	(14,10) .555
-03	(14,10) .555	(13,59) .535	-09	(15,60) .614	(15,09) .594
-05	(10,59) .417	(10,08) .397	-10	(17,60) .693	(17,09) .673
			-11	(19,58) .771	(19,08) .751

  

TPCF dimensions: (12,07) .475, (2,00) .0787, (7,59) .299, (2,29) .090, (0,50) .0197 SQ, (2,00) .079

TPCM dimensions: (6,10) .240, (3,30) .130, (8,00) .315, (1,79) .071, (2,00) .0787, (3,53) .139, (2,29) .090

TPCF	1	NO. POS. PER ROW	01	PLATING OPTION	Q	POWER POS.	RA OPTION
		20, 30, 40, 50 = No. of positions per row + 2 x No. of power positions		-L = 10µ" (0,25µm) Gold on contact, Matte Tin on tail -F = Gold flash on contact, Matte Tin on tail		-4 = Four Per Row -8 = Eight Per Row	-RA = Right Angle (Leave blank for straight tails)

  

TPCF dimensions: (2,00) .0787 TYP, (0,38) .015, (2,29) .090, (8,00) .315, (0,50) .0197 SQ TYP, (10,03) .395, (9,16) .360, (3,03) .119, (2,29) .090

**Note:**  
Some lengths, styles and options are non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.

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