



2mm ISOLATED POWER TPCM, TPCF SERIES

SPECIFICATIONS

For complete specifications see www.samtec.com?TPCM or www.samtec.com?TPCF

Insulator Material:
Black Liquid Crystal Polymer
FILE NO. E111594

Terminal Material (TPCM):
Phosphor Bronze

Contact Material (TPCF):
Phosphor Bronze

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

Current Rating:
Signal Pins: 3A @ 80°C ambient
Power Pins: 2.5A @ 30°C temperature rise

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

| NO. OF POSITIONS PER ROW | NO. OF SIGNAL PER ROW | NO. OF POWER PER ROW |
|--------------------------|-----------------------|----------------------|
| 20 | 12 4 | 4 8 |
| 30 | 22 14 | 4 8 |
| 40 | 32 24 | 4 8 |
| 50 | 42 34 | 4 8 |

Processing:

Max Processing Temp:
230°C for 60 seconds, or
260°C for 20 seconds 3x with all Au or Matte Sn plating
Lead-Free Solderable:
Wave, or reflow with all Au or Matte Sn

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

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 or -SM
= 30µ" (0,76µm) Gold on contact, Tin (-S) or Matte Tin (-SM) on tail

-T or -TM
= Tin (-T) or Matte Tin (-TM)

-“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 - **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 or -LM
= 10µ" (0,25µm) Gold on contact, Tin (-L) or Matte Tin (-LM) on tail

-F or -FM
= Gold flash on contact area, Tin (-F) or Matte Tin (-FM) on tail

-4
= Four Per Row

-8
= Eight Per Row

-RA
= Right Angle (Leave blank for straight tails)

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

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