

PMC-1001TH



PMC-1001TH

Standard SMD Reed Switch
pitch 15.0 mm

Electrical Characteristics

@ 25 °C

Contact form		A
Contact material		Ru
Contact rating max.	W / VA	10
Switching voltage max.	VDC	180
	VAC	130
Switching current max.	A	0.7
Carry current max.	A	1
Breakdown voltage min.	VDC	200
Contact resistance max. (initial)	mΩ	200
Insulation resistance min.	Ω	10 ⁹

Magnetical Characteristics (of unmodified Reed Switch)

@ 25 °C

Pull in range available	AT	10 - 25
Drop out min.	AT	4
Test coil	TC	010
Test equipment tolerance	± AT	2

Operating Characteristics

@ 25 °C

Switching frequency max.	Hz	500
Resonant frequency typ.	Hz	5000
Operate time max. (incl. bounce)	ms	0.5
Release time max.	ms	0.3

Environmental Characteristics

Operating temperature	°C	-40 to +125
Storage temperature	°C	-40 to +125
Soldering temperature max.	°C	255
Vibration (50-2000 Hz)	g	20
Shock (1/2 sin 11 ms)	g	100
Lead tensile strength min.	kg	3

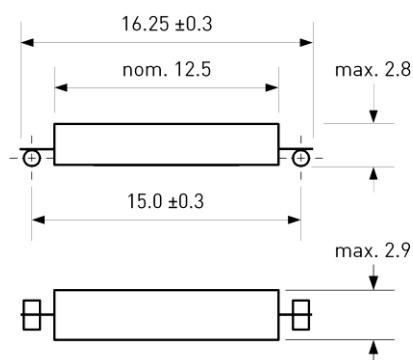
Features

- Small size
- Minimum height above PCB
- Over 1 billion reliable operations at dry circuits or low level loads
- Suitable for lead-free soldering
- Suitable for automated assembly
- Tape & reel packaging
- Various sensitivity ranges available

Approvals



Dimensions in mm



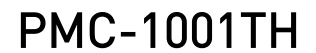
Ordering Information

Packing Unit	2500 pcs
Weight per piece	0.144 g
Weight per package	800 g
Reel size	13 inches
Standard AT ranges	

10 to 15 AT
15 to 20 AT
20 to 25 AT

Ordering example

PMC-1001TH1520 describes
PMC-1001TH with 15 to 20 AT.



Recommended PCB Layout in mm

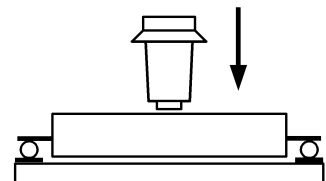


Final assembly position

The graph illustrates the temperature profile of a material during a heating process. The y-axis represents Temperature in degrees Celsius (°C), ranging from 0 to 300. The x-axis represents Time in seconds (sec.), ranging from 0 to 320. The process consists of several stages: initial heating from 30°C to 150°C over 80 seconds, a 100-second dwell at 150°C, further heating from 150°C to 250°C over 100 seconds (from 180s to 220s), a 20-second dwell at 250°C, and finally cooling from 250°C to 200°C over 20 seconds (from 240s to 260s).

Time (sec.)	Temperature (°C)
0	30
80	150
180	150
220	250
240	250
260	200

Recommended Mounting Force	3 N
Maximum Mounting Force	10 N



Technical drawing of a mechanical part (Fig. 1.10) showing a cross-section with dimensions and tolerances. The drawing includes the following specifications:

- Top horizontal dimensions: 2.0, 8.0, 4.0, 1.75.
- Left vertical dimensions: $\varnothing 1.5 \pm 0.1$, 16.9 ± 0.2 .
- Right vertical dimensions: 11.5, 24.0 ± 0.2 .
- Bottom horizontal dimensions: 3.1, 3.1.
- Internal features: Three vertical slots, each with a semi-circular end of radius $R 0.5$. The slots are separated by a distance of 8.0 and have a width of 4.0.
- Other features: Three small circular holes, each with a diameter of $\varnothing 1.5$, located in the upper section of the part.

Please pay attention to MSL instructions as per label on reel.