

PMC-1001TS



PMC-1001TS

Standard SMD Reed Switch
pitch 11.8 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	300
Vibration (50-2000 Hz)	g	20
Shock (1/2 sin 11 ms)	g	100
Lead tensile strength min.	kg	3

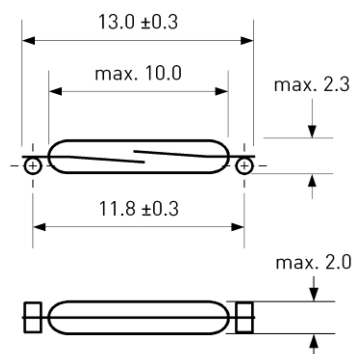
Features

- 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



Position of contact blades not defined.

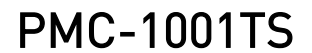
Ordering Information

Packing Unit	5000 pcs
Weight per piece	0.06 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-1001TS1520 describes
PMC-1001TS with 15 to 20 AT.



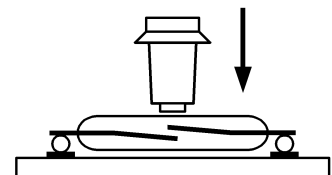
Recommended PCB Layout in mm



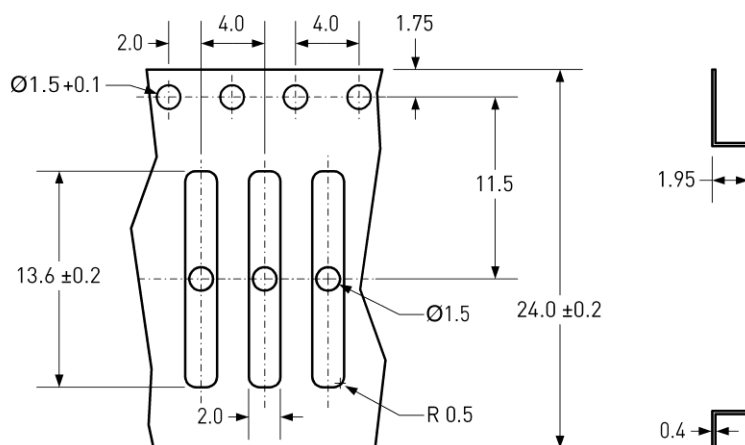
Final assembly position

The graph shows the temperature profile of a material over 320 seconds. The temperature starts at 25°C, rises to 150°C at 80s, stays constant until 180s, then rises to 300°C at 240s, and finally decreases to 210°C at 320s. A shaded gray triangle is formed between the 180s and 240s marks on the time axis, with its peak at 240s and 300°C. Annotations include a 100s interval from 80s to 180s, a 60s interval from 180s to 240s, and a 10s interval from 240s to 250s.

Recommended Mounting Force	3 N
Maximum Mounting Force	10 N



Tolerance ± 0.1 unless otherwise specified



Remarks

When placed onto ferromagnetic parts
switching distance of PMC-1001TS
may reduce.

Electromagnetical influences and magnetic fields may change the switching behaviour of the SMD Reed Switch.