

PMC-1001S



PMC-1001S

Standard SMD Reed Switch

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	150
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

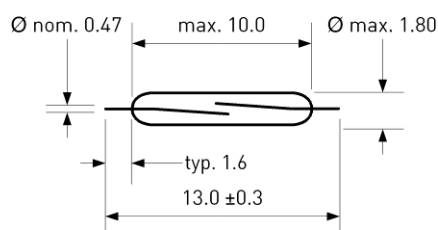
Features

- Small size
- Minimum height above PCB
- Over 1 billion reliable operations at dry circuits or low level loads
- No power supply required
- Perfect economical alternative to Hall switches
- Suitable for automated assembly
- Tape & reel packaging

Approvals



Dimensions in mm



Ordering Information

Packing Unit	3000 pcs
Weight per piece	0.04 g
Weight per package	700 g
Reel size	13 inches
Standard AT ranges	

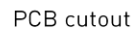
10 to 15 AT
15 to 20 AT
20 to 25 AT

Ordering example

PMC-1001S1520 describes
PMC-1001S with 15 to 20 AT.



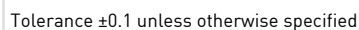
Pad sizes



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. The area under the curve from 180s to 240s is shaded gray.

Time (sec.)	Temperature (°C)
0	25
80	150
180	150
240	300
320	210

Recommended Mounting Force	3 N
Maximum Mounting Force	10 N



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