

PMC-1424S



PMC-1424S
Standard SMD Reed Switch

Electrical Characteristics @ 25 °C

Contact form		A
Contact material		PGM*
Contact rating max.	W / VA	10
Switching voltage max.	VDC	200
	VAC	140
Switching current max.	A	0.5
Carry current max.	A	1
Breakdown voltage min.	VDC	250
Contact resistance max. (initial)	mΩ	100
Insulation resistance min.	Ω	10 ¹⁰

*PGM = Platinum Group Metal

Magnetical Characteristics (of unmodified Reed Switch) @ 25 °C

Pull in range available	AT	10 - 30
Drop out min.	AT	4
Test coil	TC	086
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	0.4
Release time max.	ms	0.05

Environmental Characteristics

Operating temperature	°C	-40 to +125
Storage temperature	°C	-40 to +125
Soldering temperature max.	°C	300
Vibration (50-2000 Hz)	g	50
Shock (1/2 sin 11 ms)	g	50
Lead tensile strength min.	kg	3

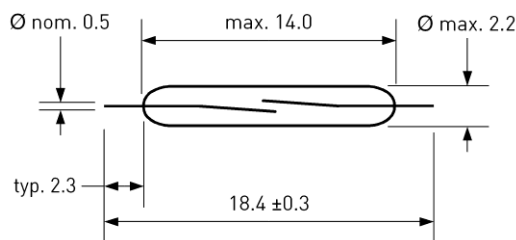
Features

- Small size
- Minimum height above PCB
- Over 1 billion reliable operations at dry circuits or low level loads
- Perfect economical alternative to Hall switches
- Suitable for automated assembly
- Tape & reel packaging
- Various sensitivity ranges available

Approvals



Dimensions in mm



Ordering Information

Packing Unit	5000 pcs
Weight per piece	0.1 g
Weight per package	900 g
Reel size	13 inches
Standard AT ranges	

- 10 to 15 AT
- 15 to 20 AT
- 20 to 25 AT
- 25 to 30 AT

Ordering example

PMC-1424S1520 describes
PMC-1424S with 15 to 20 AT.

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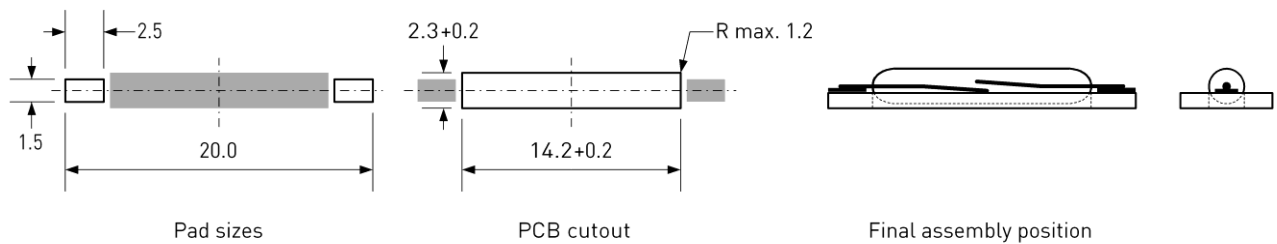
PMC-1424S



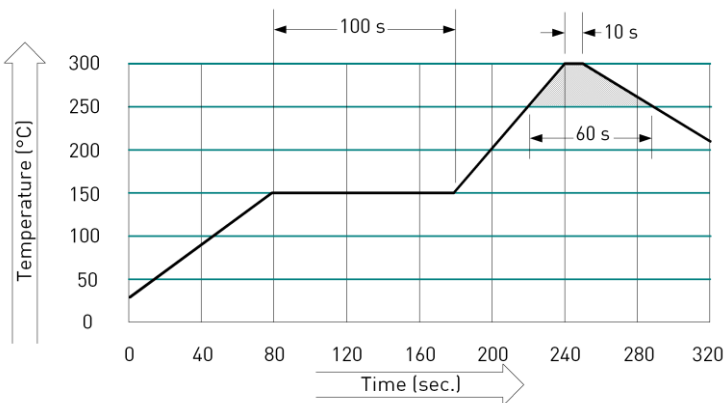
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Recommended PCB Layout in mm

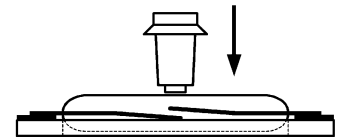


Soldering Information



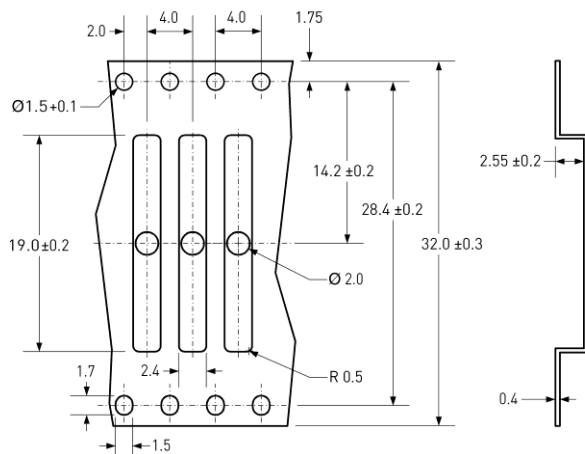
Mounting Force

Recommended Mounting Force	3 N
Maximum Mounting Force	8 N



Tape Dimensions in mm

Tolerance ±0.1 unless otherwise specified



Remarks

When placed onto ferromagnetic parts switching distance of PMC-1424S may reduce.

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