

## PMC-0701S



## PMC-0701S

Micro SMD Reed Switch

### Electrical Characteristics

@ 25 °C

|                                   |        |                 |
|-----------------------------------|--------|-----------------|
| Contact form                      |        | A               |
| Contact material                  |        | Ru              |
| Contact rating max.               | W / VA | 10              |
| Switching voltage max.            | VDC    | 150             |
|                                   | VAC    | 120             |
| Switching current max.            | A      | 0.5             |
| Carry current max.                | A      | 0.7             |
| Breakdown voltage min.            | VDC    | 200             |
| Contact resistance max. (initial) | mΩ     | 200             |
| Insulation resistance min.        | Ω      | 10 <sup>9</sup> |

### Magnetical Characteristics (of unmodified Reed Switch)

@ 25 °C

|                          |      |         |
|--------------------------|------|---------|
| Pull in range available  | AT   | 10 - 20 |
| Drop out min.            | AT   | 4       |
| Test coil                | TC   | 010     |
| Test equipment tolerance | ± AT | 1       |

### Operating Characteristics

@ 25 °C

|                                  |    |       |
|----------------------------------|----|-------|
| Switching frequency max.         | Hz | 600   |
| Resonant frequency typ.          | Hz | 12000 |
| Operate time max. (incl. bounce) | ms | 0.3   |
| Release time max.                | ms | 0.1   |

### Environmental Characteristics

|                            |    |             |
|----------------------------|----|-------------|
| Operating temperature      | °C | -40 to +125 |
| Storage temperature        | °C | -40 to +125 |
| Soldering temperature max. | °C | 300         |
| Vibration (50-2000 Hz)     | g  | 10          |
| Shock (1/2 sin 11 ms)      | g  | 50          |
| Lead tensile strength min. | kg | 2           |

### Features

- Ultra miniature 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

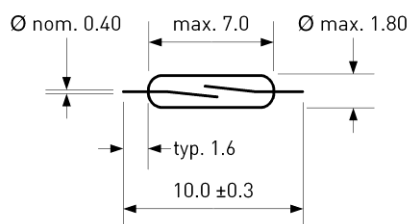
### Approvals

RoHS

REACH

cAUS

### Dimensions in mm



### Ordering Information

|                    |           |
|--------------------|-----------|
| Packing Unit       | 3000 pcs  |
| Weight per piece   | 0.03 g    |
| Weight per package | 650 g     |
| Reel size          | 13 inches |

|                    |             |
|--------------------|-------------|
| Standard AT ranges | 10 to 15 AT |
|                    | 15 to 20 AT |

### Ordering example

PMC-0701S1520 describes  
PMC-0701S with 15 to 20 AT.

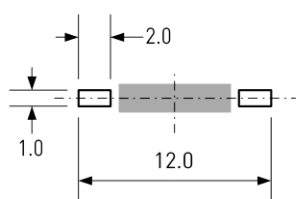
## PMC-0701S



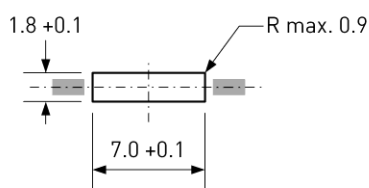
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### Recommended PCB Layout in mm



Pad sizes

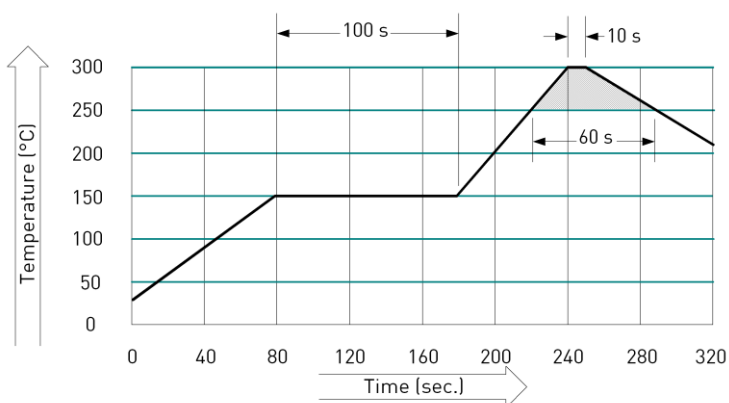


PCB cutout



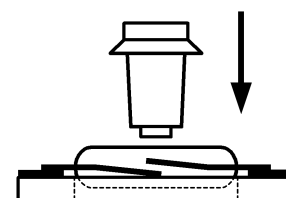
Final assembly position

### Soldering Information



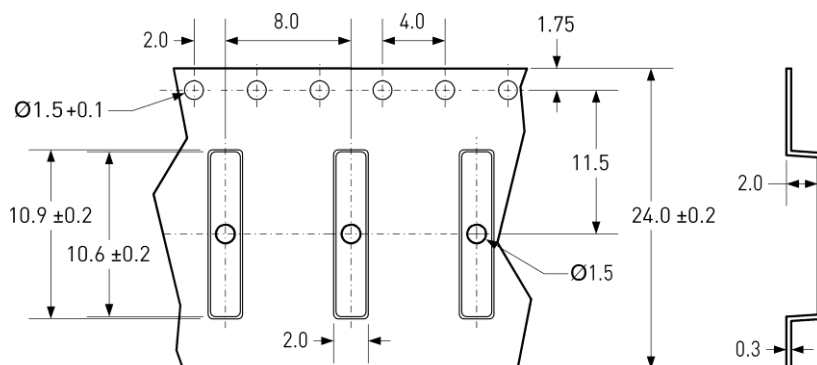
### Mounting Force

|                            |     |
|----------------------------|-----|
| Recommended Mounting Force | 2 N |
| Maximum Mounting Force     | 5 N |



### Tape Dimensions in mm

Tolerance  $\pm 0.1$  unless otherwise specified



### Remarks

When placed onto ferromagnetic parts switching distance of PMC-0701S may reduce.

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