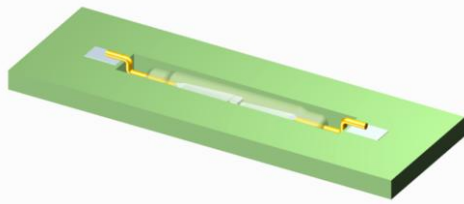


## PMC-1401Z



## PMC-1401Z

Standard SMD Reed Switch

### Electrical Characteristics @ 25 °C

|                                   |        |                  |
|-----------------------------------|--------|------------------|
| Contact form                      |        | A                |
| Contact material                  |        | Ru               |
| Contact rating max.               | W / VA | 10               |
| Switching voltage max.            | VDC    | 200              |
|                                   | VAC    | 140              |
| Switching current max.            | A      | 1                |
| Carry current max.                | A      | 1.2              |
| Breakdown voltage min.            | VDC    | 240              |
| Contact resistance max. (initial) | mΩ     | 150              |
| Insulation resistance min.        | Ω      | 10 <sup>10</sup> |

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

|                          |      |         |
|--------------------------|------|---------|
| Pull in range available  | AT   | 10 - 25 |
| Drop out min.            | AT   | 4       |
| Test coil                | TC   | 014     |
| Test equipment tolerance | ± AT | 2       |

### Operating Characteristics @ 25 °C

|                                  |    |      |
|----------------------------------|----|------|
| Switching frequency max.         | Hz | 500  |
| Resonant frequency typ.          | Hz | 4000 |
| Operate time max. (incl. bounce) | ms | 1    |
| Release time max.                | ms | 0.4  |

### Environmental Characteristics

|                            |    |             |
|----------------------------|----|-------------|
| Operating temperature      | °C | -60 to +155 |
| Storage temperature        | °C | -60 to +155 |
| Soldering temperature max. | °C | 300         |
| Vibration (50-2000 Hz)     | g  | 20          |
| Shock (1/2 sin 11 ms)      | g  | 100         |
| Lead tensile strength min. | kg | 4           |

### Features

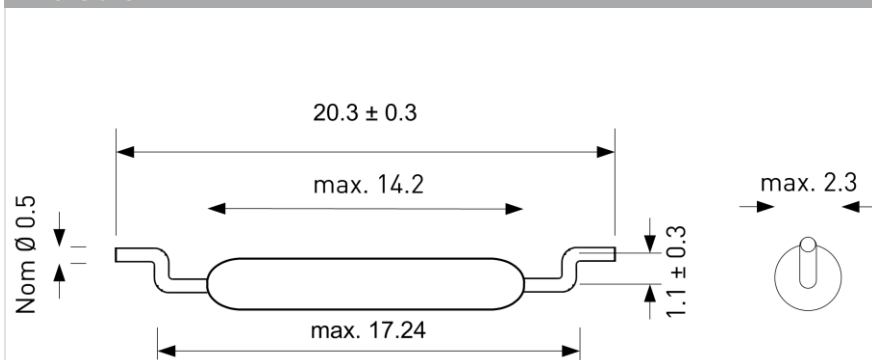
- > typ. Load resistive
- > Minimum height above PCB
- > Perfect economical alternative to Hall switches
- > hermetically sealed: nC
- > Over 1 billion reliable operations at dry circuits or low level loads
- > Suitable for lead-free soldering
- > Tape & reel packaging

### Approvals



Contact PIC for Agency Ratings!

### Dimensions in mm



Position of contact blades not defined.

### Ordering Information

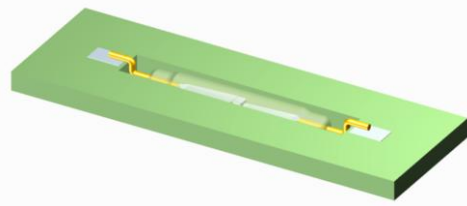
|                    |           |
|--------------------|-----------|
| Packing Unit       | 5000 pcs  |
| Weight per piece   | 0.1 g     |
| Weight per package | 1200 g    |
| Reel size          | 13 inches |
| Standard AT ranges |           |

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

### Ordering example

PMC1401Z1520 describes  
PMC-1401Z with 15-20 AT

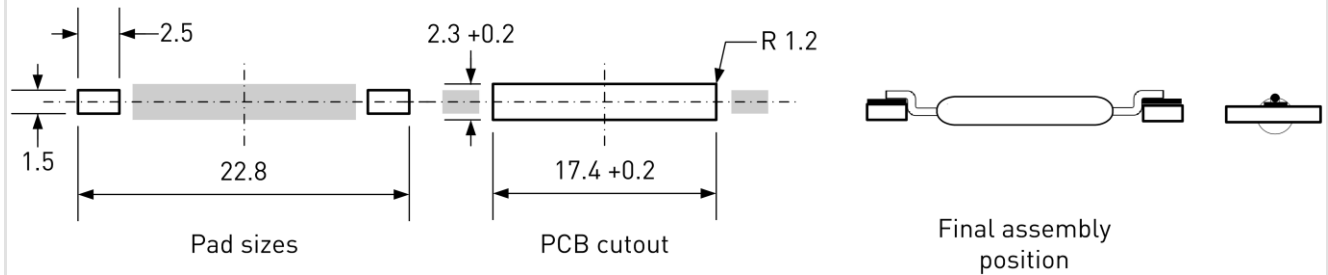
## PMC-1401Z



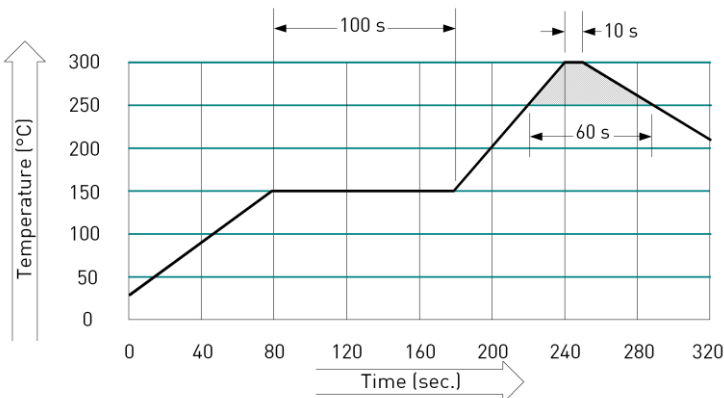
## PMC-1401Z

Standard SMD Reed Switch

### Recommended PCB Layout in mm

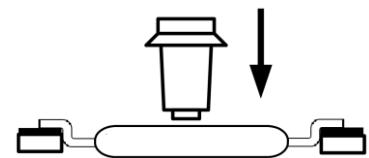


### Soldering Information



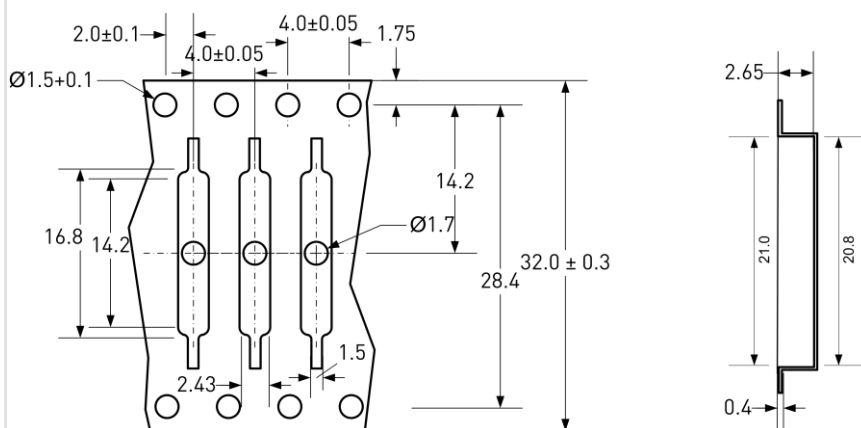
### Mounting Force

|                            |     |
|----------------------------|-----|
| Recommended Mounting Force | 3 N |
| Maximum Mounting Force     | 8 N |



### Tape Dimensions in mm

Tolerance  $\pm 0.1$  unless otherwise specified



### Remarks

When placed onto ferromagnetic parts switching distance of PMC-1401Z may reduce.

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