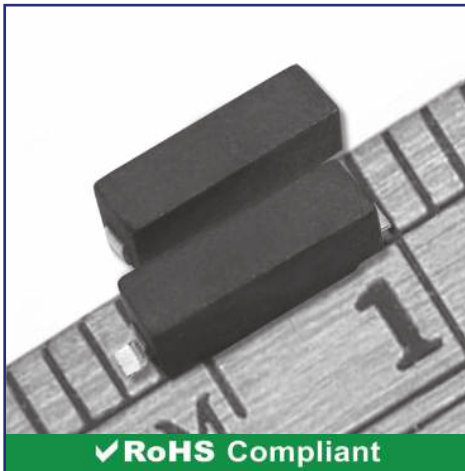


RI-80 SMDM Series Molded Dry Reed Switch



RI-80 SMDM Series

The RI-80 SMDM is a Single-pole, Single-throw (SPST) dry reed switch, having normally open contacts, and two magnetically actuated reeds.

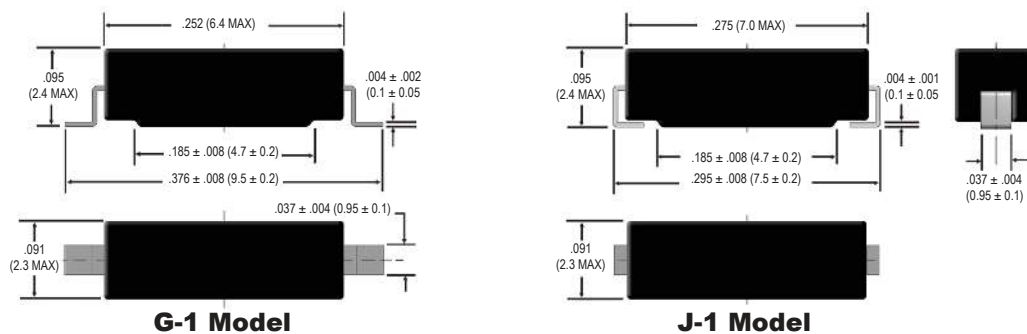
The switch is of the double-ended type and may be actuated by an electromagnet, a permanent magnet or a combination of both.

The RI-80 SMDM is available in Gull wing and J-Bend lead configurations.

RI-80 SMDM Series Features

- Ideal for proximity sensors & medical applications
- Contact layers: gold, sputtered ruthenium
- 5 Watt rating
- Tape & reel packaging

Dimensions for RI-80 SMDM Series *All Dimension in inches (mm) nominal*



Technical Specifications

| Parameters | Units | RI-80 SMDM |
|--------------------------------------|-------|-----------------|
| Operating Characteristics | | |
| Operate Range | AT | 5-15* |
| Release Range | AT | 2-13* |
| Electrical Characteristics | | |
| Switched Power (max) | W | 5 |
| Switched Voltage DC (max) | V | 175 |
| Switched Voltage AC, RMS value (max) | V | 140 |
| Switched Current DC (max) | mA | 350 |
| Switched Current AC, RMS value (max) | mA | 250 |
| Carry Current DC (max) | A | 0.5 |
| Breakdown Voltage DC (min) | V | 230** |
| Contact Resistance (initial max.) | mΩ | 160 |
| Contact Resistance (initial typ.) | mΩ | 140 |
| Insulation Resistance (min) | MΩ | 10 ⁶ |
| Environmental Ratings | | |
| Storage Temperature | °C | -40 to +125 |
| Operating Temperature | °C | -40 to +125 |
| Vibration Resistance | G | 10 |
| Shock Resistance | G | 100 |

NOTES: * AT values are based on full length, measured using Philips Standard Coil (PSC).

** 230V for AT>10, 175V for AT<10

RI-80 SMDM Series Molded Dry Reed Switch

Based on standard RI-80 models

Recommended PCB SMD Pad Layout

ORDERING INFORMATION

RI80SMDM-XXXX-YY

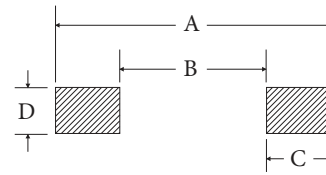
Lead Configuration:
G1 for Gull Wing version
J1 for J-Lead version

AT Ranges

0510

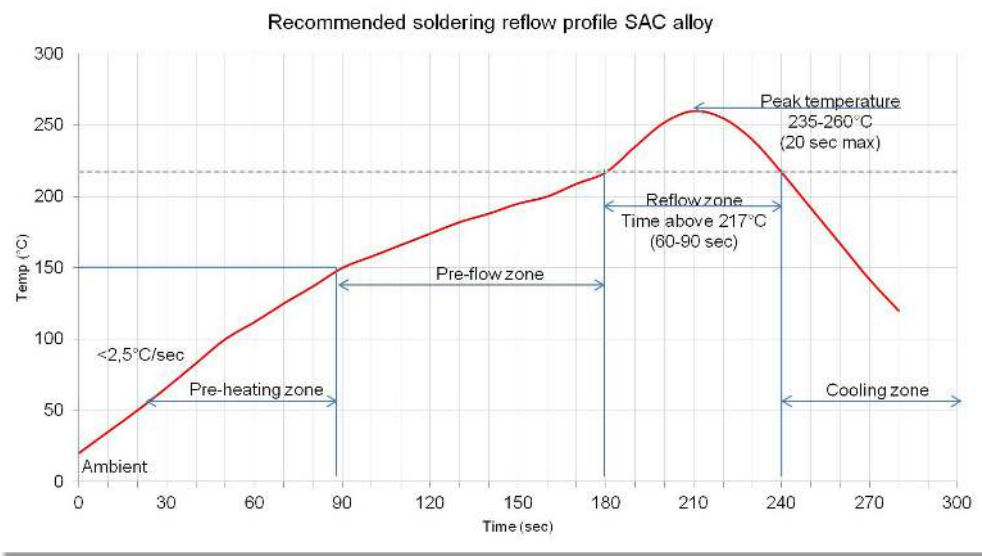
1015

Series



| Recommended Pad Layout | | | | |
|------------------------|--------------|-------------|-------------|-------------|
| Lead Type | Dim. A | Dim. B | Dim. C | Dim. D |
| G1 | .424 / 10.76 | .242 / 6.14 | .091 / 2.31 | .057 / 1.45 |
| J1 | .330 / 8.38 | .168 / 4.27 | .081 / 2.06 | .057 / 1.45 |

Recommended Soldering Reflow Profile



Dimensions for RI-80 SMDM Tape and Reel

All Dimension in inches (mm) nominal

