# COMUS Group



## **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.

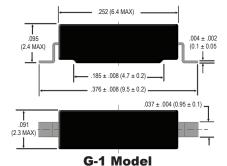
The switch is of the double-ended type and may be actuated by an electromagnet, a permanent magnet or a combination of both.

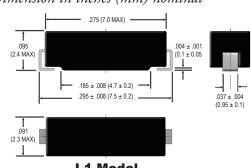
The RI-80 SMDM is available in Gull wing and J-Bend lead configurations.

#### **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)	А	0.5	
Breakdown Voltage DC (min)	V	230**	
Contact Resistance (initial max.)	mΩ	160	
Contact Resistance (initial typ.)	mΩ	140	
Insulation Resistance (min)	ΜΩ	106	
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**

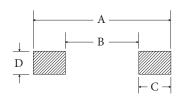
#### **ORDERING INFORMATION**

#### RI80SMDM-XXXX-YY

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

AT	Ranges
051	0

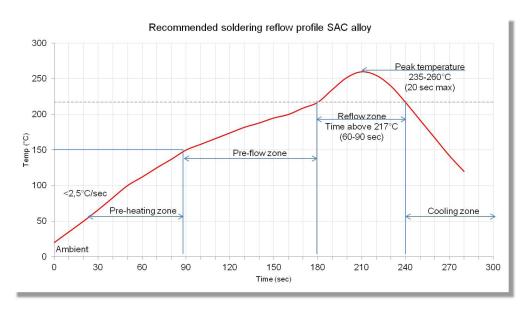
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Recommended Pad Layout						
Lead Type	Dim. A	Dim. B	Dim. C	Dim. D		
G1	.424 / 10.76	.242 / 6.14	.091 / 2.31	.057 / 1.45		
J1	.330 / 8.38	.168 / 4.27	.081 / 2.06	.057 / 1.45		

Series

### **Recommended Soldering Reflow Profile**



### **Dimensions for RI-80 SMDM Tape and Reel**

