COMUS Group

RI-69SMDM Series Molded Dry Reed Switch **20 Watts**

RI-69SMDM Series

Ultra-miniature dry-reed switch hermetically sealed in a gas-filled glass envelope. Single-pole, single-throw (SPST) type, having normally open contacts, and containing two magnetically actuated reeds.
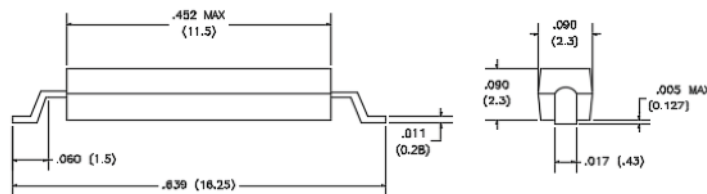
The switch is of the double-ended type and may be actuated by an electromagnet, a permanent magnet or a combination of both.

RI-69SMDM Series Features

- Switching up to 20 Watts
- Contact layers: gold, copper, sputtered ruthenium
- Superior glass-to-metal seal and blade alignment
- Excellent life expectancy and reliability
- Industry standard SMD package

✓RoHS Compliant

Dimensions for RI-69SMDM Series

All Dimensions in inches (mm) are nominal unless noted otherwise.

Technical Specifications

Parameters	Test Conditions	Units	RI-69SMDM	
Operating Characteristics				
Operate Range		AT*	10-15	15-20
Release Range		AT*	3 (min)	4-18
Electrical Characteristics				
Switched Power (max)		W	20	
Switched Voltage DC (max)		V	200	
Switched Voltage AC, RMS value (max)		V	140	
Switched Current DC (max)		mA	1000	
Switched Current AC, RMS value (max)		mA	700	
Carry Current DC (max)		mA	1000	
Breakdown Voltage (min)		V	230	
Contact Resistance (initial max.)		mΩ	125	
Contact Resistance (initial typ.)		mΩ	95	
Contact Capacitance (max)	without test coil	pF	0.25	
Insulation Resistance (min)	RH ≤ 45%	MΩ	10^6	
Environmental Ratings				
Storage Temperature		°C	-40 to +100	
Operating Temperature		°C	-40 to +85	
Vibration Resistance		G	10	
Shock Resistance		G	100	

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

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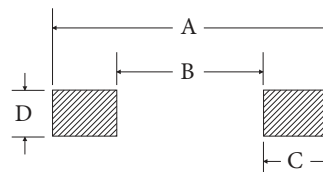
ORDERING INFORMATION

RI-69SMDM-XXXX-G1

Lead Configuration:
G1 for Gull Wing

AT Ranges
1015
1520
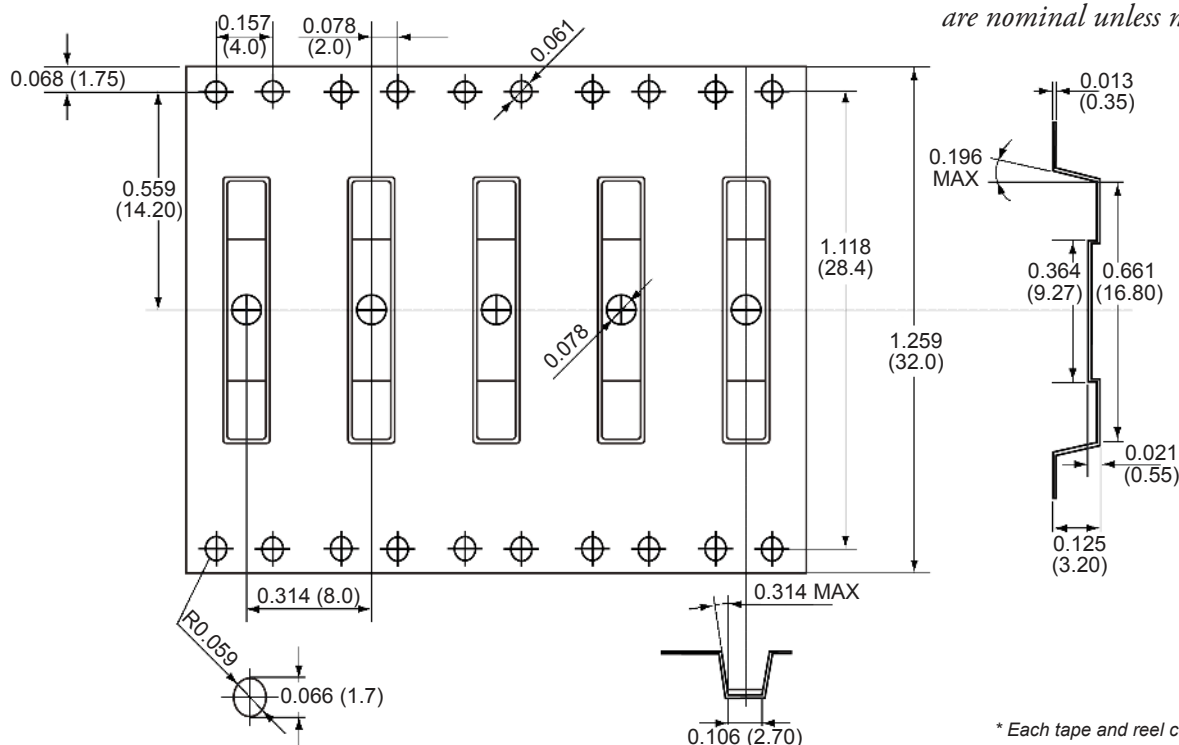
Series

Recommended PCB SMD Pad Layout

Recommended Pad Layout

Lead Type	Dim. A	Dim. B	Dim. C	Dim. D
G1	.692 / 17.57	.520 / 13.20	.086 / 2.18	.041 / 1.04

Recommended Soldering Reflow Profile

Recommended soldering reflow profile SAC alloy

Dimensions for RI-69SMDM Tape and Reel

All Dimensions in inches (mm) are nominal unless noted otherwise.

0.157 (4.0)
0.078 (2.0)
0.061
0.068 (1.75)
0.559 (14.20)
1.118 (28.4)
1.259 (32.0)
0.078
0.314 (8.0)
R0.059
0.066 (1.7)
0.314 MAX
0.106 (2.70)

0.013 (0.35)
0.196 MAX
0.364 (9.27)
0.661 (16.80)
0.021 (0.55)
0.125 (3.20)

* Each tape and reel contains 2,500 pieces.