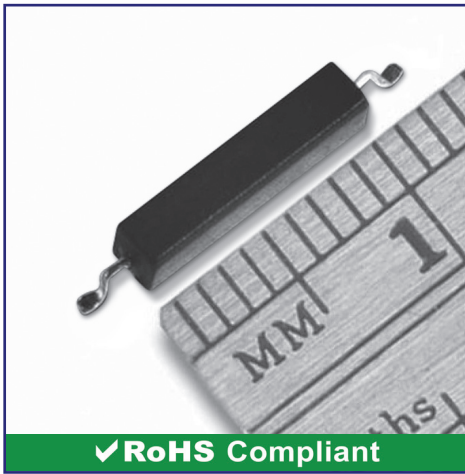


# RI-69SMDM Series Molded Dry Reed Switch **20 Watts**



## 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.

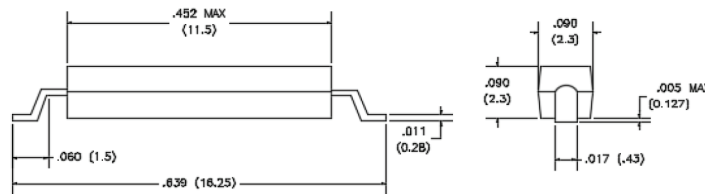
The switch is of the double-ended type and may be actuated by an electromagnet, a permanent magnet or a combination of both.

## 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

## Dimensions for RI-69SMDM Series

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



## Technical Specifications

Parameters	Test Conditions	Units	RI-69SMDM	
<b>Operating Characteristics</b>				
Operate Range		AT*	10-15	15-20
Release Range		AT*	3 (min)	4-18
<b>Electrical Characteristics</b>				
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 <sup>6</sup>	
<b>Environmental Ratings</b>				
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).

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

## ORDERING INFORMATION

RI-69SMDM-XXXX-G1

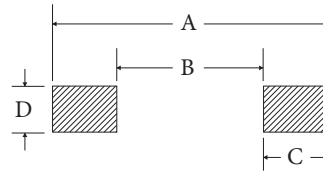
**Lead Configuration:**  
G1 for Gull Wing

**AT Ranges**

1015  
1520

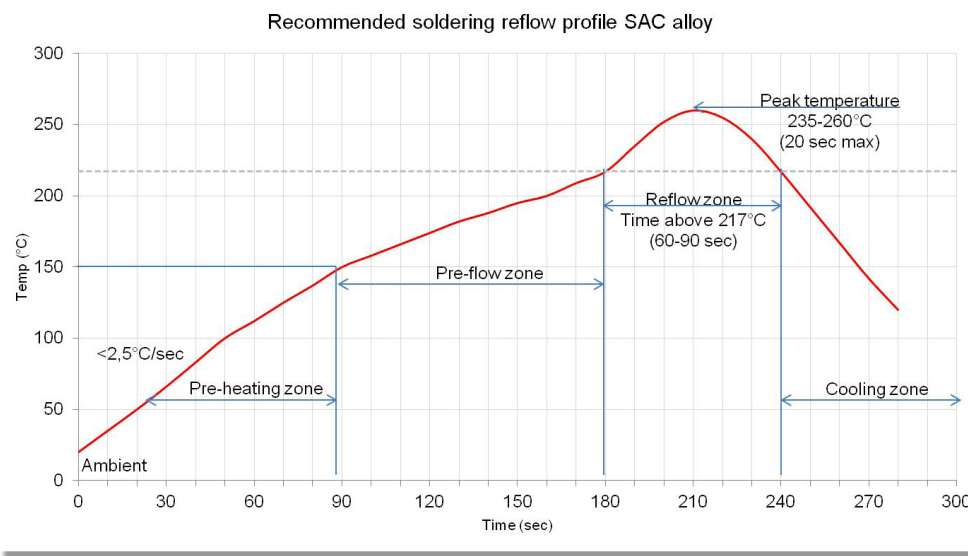
**Series**

## Recommended PCB SMD Pad Layout



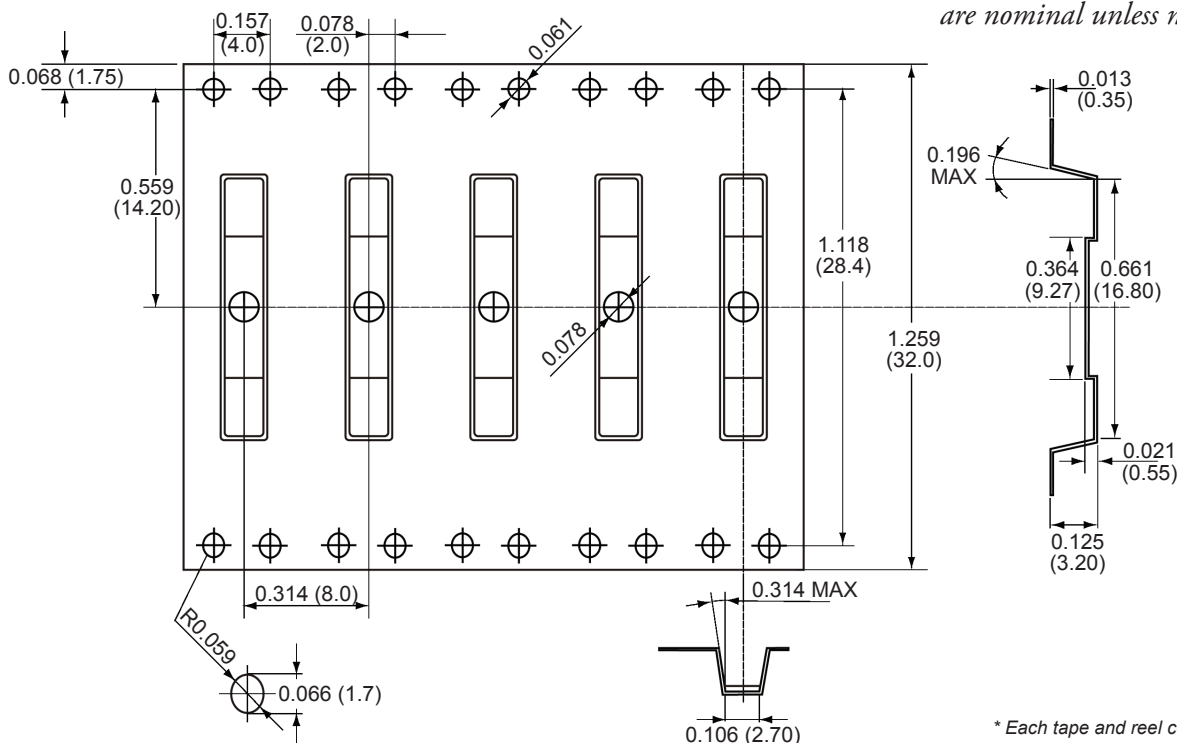
Recommended Pad Layout				
Lead Type	Dim. A	Dim. B	Dim. C	Dim. D
G1	.692 / 17.57	.520 / 13.20	.086 / 2.18	.041 / 1.04

## Recommended Soldering Reflow Profile



## Dimensions for RI-69SMDM Tape and Reel

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



\* Each tape and reel contains 2,500 pieces.