

## Features

- Formerly a Riedon™ product
- Resistances from 50 Ω to 3 MΩ
- Power rating: 1 watt
- Resistance tolerances as low as ±0.05 %
- TCR as low as ±5 PPM/°C
- Very low inductance
- Excellent long term stability
- RoHS compliant\*

## SF-2 – Riedon™ Surface Mount / Precision Metal Film Resistors by Bourns

### Specifications

Characteristic	SF2
Resistance Range (Ω)	50 - 3M
Power Rating with T <sub>A</sub> = 70 °C (W)	1
Temperature Range	-25 °C to +125 °C (T <sub>C</sub> ≥ 25 PPM/°C) -10 °C to +85 °C (T <sub>C</sub> < 25 PPM/°C)
Dielectric Strength	750 VAC
Insulation Resistance	>1000 MΩ / Dry
Terminal Finish	100% matte tin over copper
Voltage Coefficient	0.5 PPM/V (max.)

### Electrical Characteristics

TCR (±PPM/°C)	Resistances Available at These Tolerances (Ω)				
	±0.05 %	±0.10 %	±0.25 %	±0.5 %	±1 %
5	50 - 250K	10 - 250K			
10	50 - 510K	10 - 510K			
15		10 - 1M	10 - 1.5M		
25		10 - 1M	10 - 1.5M	5 - 2M	5 - 2M
50		5 - 1M	3 - 1.5M	2 - 2M	1 - 3M

### Additional Information

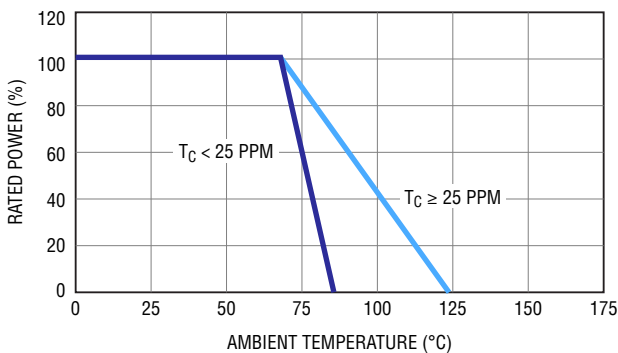
Click these links for more information:



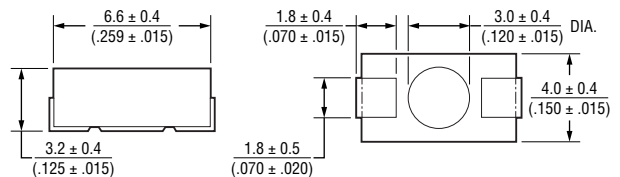
### How to Order

Standard Model \_\_\_\_\_ **SF2 - 10R F 2**  
 Resistance Code \_\_\_\_\_  
 For values <1K Ω,  
 "R" represents decimal point  
 (Example: 0R1 = 0.1 Ω)  
 For values 1K-10K Ω,  
 "K" represents decimal point  
 (Example 1K = 1K Ω, 1K5 = 1.5K Ω)  
 For values >10K Ω,  
 "M" represents decimal point  
 (Example 10M = 10K Ω)  
 Tolerance (%) \_\_\_\_\_  
 U\*\* = ±0.05 %      D = ±0.5 %  
 B = ±0.1 %      F = ±1 %  
 C = ±0.25 %  
 Internal Use \_\_\_\_\_  
 (Specific TCR values available upon request.)  
 \*\*[Contact Bourns](#) for tolerances <±0.01 %.

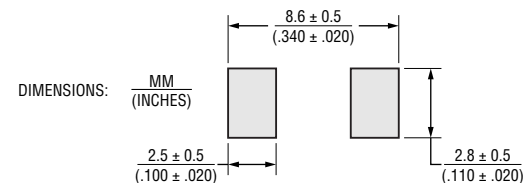
### Power Derating Curve



### Product Dimensions



### Recommended Footprint



### Packaging Specifications

7-Inch Reel ..... 600 pcs. per reel  
 13-Inch Reel ..... 2000 pcs. per reel

REV. 10/24

\*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at [www.bourns.com/docs/legal/disclaimer.pdf](http://www.bourns.com/docs/legal/disclaimer.pdf).

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