

## 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\*

**BOURNS®**

**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 (%) \_\_\_\_\_

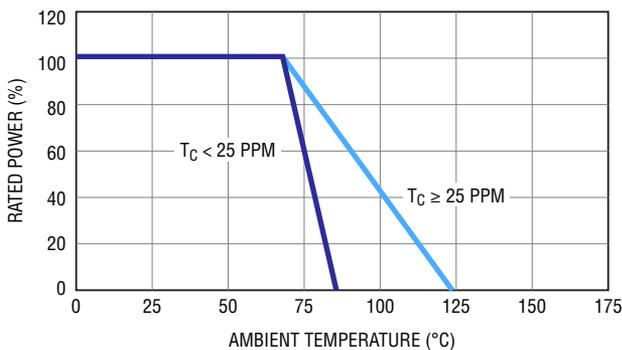
U\*\* = ±0.05 %      D = ±0.5 %  
B = ±0.1 %      F = ±1 %  
C = ±0.25 %

Internal Use \_\_\_\_\_

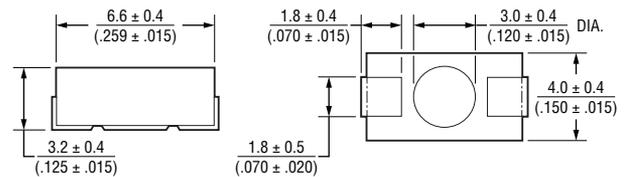
(Specific TCR values available upon request.)

\*\*[Contact Bourns](#) for tolerances <±0.01 %.

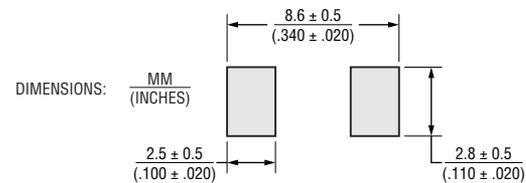
## Power Derating Curve



## Product Dimensions



## Recommended Footprint



## Packaging Specifications

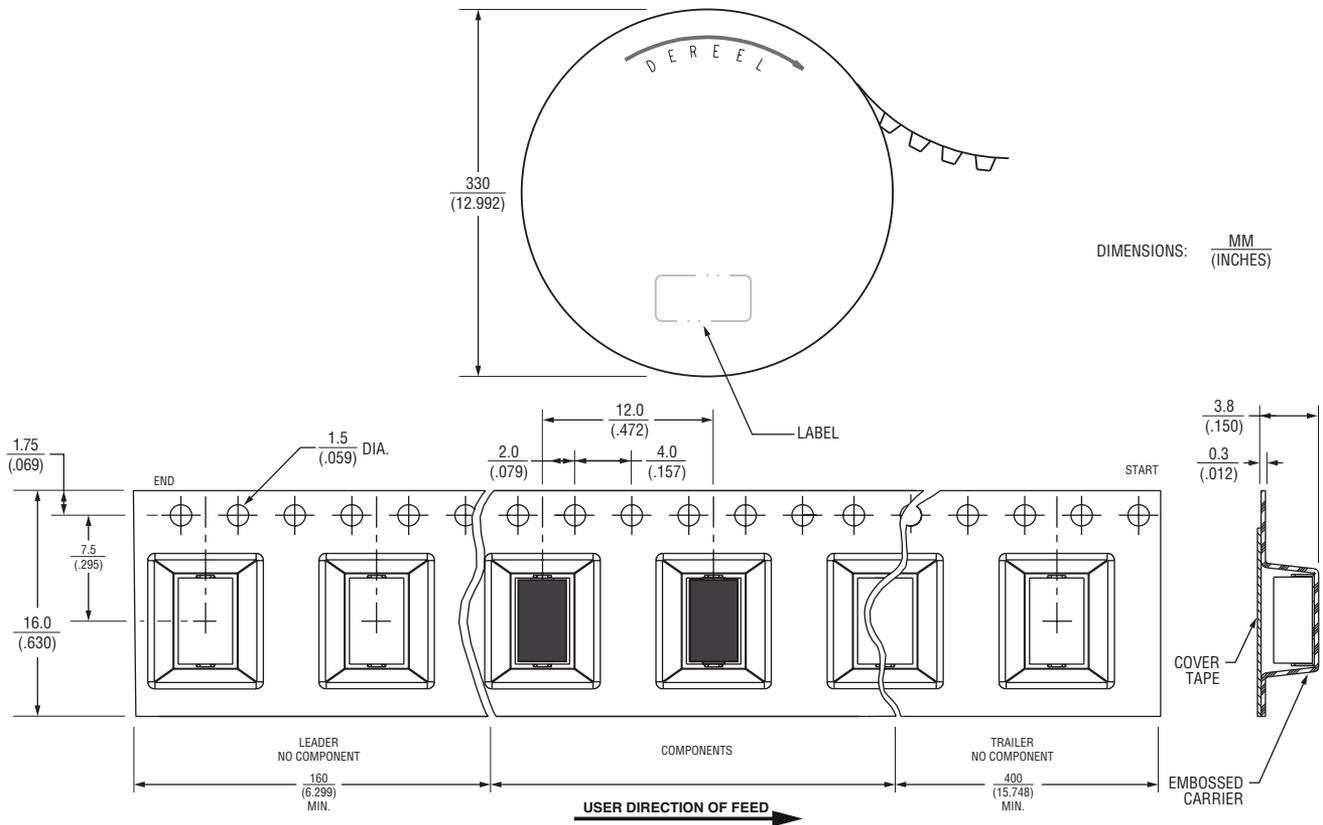
13-Inch Reel ..... 2000 pcs. per reel



**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*RoHS Directive 2015/863, Mar 31, 2015 and Annex.  
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**Packaging Specifications**



REV. 02/26

\*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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