4-TERMINAL SURFACE MOUNT

SF SERIES

RoHS Term.W is RoHS compliant & 260°C compatible

- ❒ Industry's widest range! Values from .001Ω-5KΩ, tolerances to ±0.01%, TC's to 5ppm, 1W to 3W
- ❒ Excellent for current sensing applications
- ❒ **Available on exclusive *SWIFT*™ delivery program!**

OPTIONS

- ❒ Option X: Low inductance design
- ❒ Option P: Increased pulse capability
- ❒ Option E: Low thermal EMF design
- ❒ Also available: burn-in, leaded version, custom-marking, increased current rating, matched sets, etc.

RCD's Series SF resistors feature an all-welded "Kelvin" 4-terminal design in a surface mount package, reducing the effects of lead resistance. High -temperature case provides excellent environmental protection. Series SF utilizes the same technology as our popular Series LVF leaded resistors with over 30 years of proven experience.

Resistance (ohms)	Available Tolerances	Standard Temp Coef. (Optional TC)
.001 - .0049	1% - 10%	600ppm/°C (300, 200, 100, 50ppm)
.005 - .0099	.5% - 10%	600ppm/°C (200, 100, 50, 25ppm)
.01 - .024	.25% - 10%	200ppm/°C (100, 50, 25ppm)
.025 - .049	.1% - 10%	150ppm/°C (100, 50, 25ppm)
.05 - .099	.05 - 10%	90ppm/°C (50, 25, 15ppm)
.1 - .99	.02% - 10%	50ppm/°C (25, 15, 10ppm)
1 Ohm and above	.01% - 10%	30ppm/°C (20, 10, 5ppm)

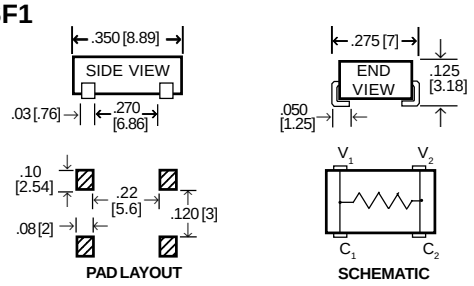
RCD Type	Wattage @ 25°C	Max. Current	Resistance Range
SF1	1W	10A	.001 to 4K
SFG2	2W - 3W*	15A	.001 to 5K

* SFG2 capable of 3W dissipation with consideration of pcb layout and pad geometry

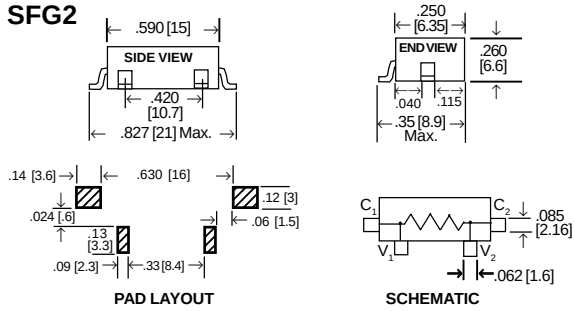
TYPICAL PERFORMANCE SPECIFICATIONS

Operating Temp.	-55° to +175° C
Dielectric Strength	250V Min.
Short-time Overload	5x rated W, 5 Sec
Moisture Resistance	.5%
High Temp. Exposure	.2%
Load Life (1000 hours)	1%
Temperature Cycling	.5%
Shock and Vibration	.1%

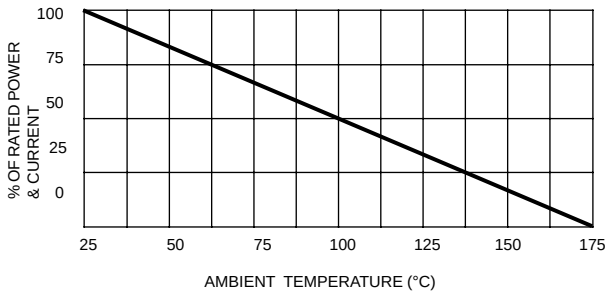
SF1



SFG2



DERATING CURVE



P/N DESIGNATION:

SF1 ☐ - R001 - J T ☐ W

RCD Type (SF1 or SFG2)

Options: X,E, etc (leave blank if standard)

Resis. Code .01% -1%: 3 signif. figures & multiplier, R001=.001Ω, R010=.01Ω, R100= .1Ω, 1R00=1Ω,10R0=10Ω, 1000=100Ω, 1001=1K
Resis. Code 2% - 10%: 2 signif. figures & multiplier, R001=.001Ω, R01=.01Ω, R10= 0.1Ω, 1R0= 1Ω,100= 10Ω, 101=100Ω, 102= 1KΩ.
Use extra digits as needed (R0125, R0075, etc).

Tolerance Code: K=10%, J=5%, H=3%, G=2%, F=1%, D=0.5%, C=0.25%, B=0.1%, A=0.05%, Q=0.02%, T=0.01%

Packaging: B = Bulk, T = Tape & Reel

Optional TC (leave blank for std): 5=5ppm, 10=10ppm, 20 = 20ppm, etc; 100ppm and above use 3-digit code: 101=100ppm, 201=200ppm, etc.

Termination: W= Lead-free, Q= Tin/Lead (leave blank if either is acceptable, in which case RCD will select based on lowest price and quickest delivery