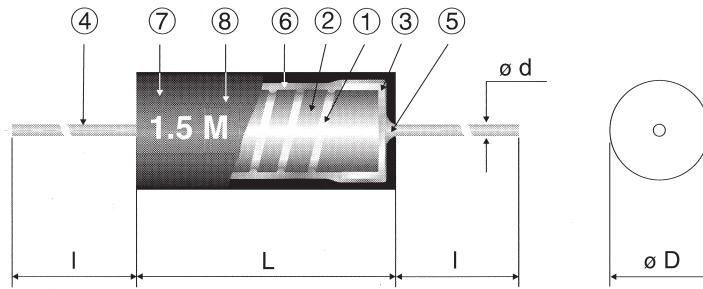
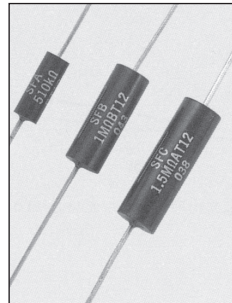


METAL FILM
HIGH PRECISION
MOLDED TYPE
SF



STRUCTURE

- 1 Ceramic core
- 2 Trimmed metal film
- 3 Steel cap (Cu, Sn plated)
- 4 Lead wire
- 5 Welding joint
- 6 Epoxy overcoating
- 7 Molded overcoating
- 8 Marking

IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING
SF 1/8 SF 1/4 SF 1/2	Black	Alpha/Numeric (Type, R-value and tolerance)

All these products have Pb-free terminations and meet EU-RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

SF	1/8	Y	C	2003	B
PRODUCT CODE	POWER RATING	T.C.R.	TERMINATION SURFACE MATERIAL	NOMINAL RESISTANCE	RESISTANCE TOLERANCE
	1/8 Watt 1/4 Watt 1/2 Watt	Y= ±5ppm/K T= ±10ppm/K	C: SnCu	4 digits*	T, Q, A, B, C, D

*It becomes a real number when a nominal resistance is 4 or more digits of significant figures

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS

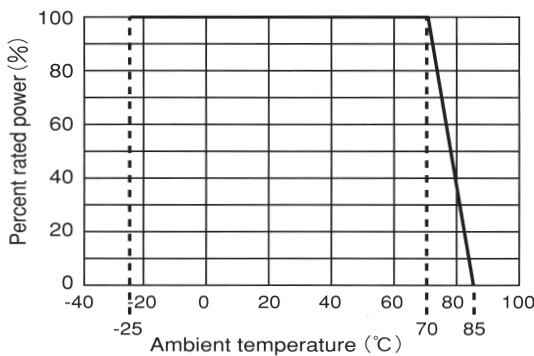
FEATURES

- Molded type
- Super high precision resistors with tolerance ±0.01% and T.C.R. ±5ppm/K
- Wide resistance range (100Ω...5.1MΩ)
- Excellent stability of resistance value with less variation ±0.01%/- year
- Meets or exceeds IEC 60 115-1, JIS C 5201-1
- Rated ambient temperature: +70°C
- Operating temperature range: -25°C ... +85°C

DIMENSIONS (mm)

TYPE	L	ø D	ø d (Nominal)	l
SF 1/8	10.5±0.4	3.6±0.4		
SF 1/4	16.0±0.4	5.5±0.5	0.65	38±3
SF 1/2	20.0±0.5	6.7±0.5	0.8	

DERATING CURVE



RATING

TYPE	T.C.R. (ppm/K)	POWER RATING*	MAX. WORKING VOLTAGE	MAX. OVERLOAD VOLTAGE	RESISTANCE RANGE					
					E24 • E96	E24 • E96	E24 • E96	E24 • E96	E24 • E96	E24 • E96
					T(±0.01%)	Q(±0.02%)	A(±0.05%)	B(±0.1%)	C(±0.25%)	D(±0.5%)
SF 1/8	Y (±5)	0.125W	250V	500 V	100Ω...200kΩ	100Ω...200kΩ	100Ω...200kΩ	100Ω...200kΩ	100Ω...200kΩ	100Ω...200kΩ
	T (±10)				100Ω...511kΩ	100Ω...511kΩ	100Ω...511kΩ	100Ω...511kΩ	100Ω...511kΩ	
SF 1/4	Y (±5)	0.25W	300V	600 V	100Ω...511kΩ	100Ω...511kΩ	100Ω...511kΩ	100Ω...511kΩ	100Ω...511kΩ	100Ω...511kΩ
	T (±10)				100Ω...1MΩ	100Ω...1MΩ	100Ω...1MΩ	100Ω...1MΩ	100Ω...1MΩ	
SF 1/2	Y (±5)	0.5W	350V	700 V	100Ω...1MΩ	100Ω...1MΩ	100Ω...1MΩ	100Ω...1MΩ	100Ω...1MΩ	100Ω...1MΩ
	T (±10)				100Ω...3.57MΩ	100Ω...5.11MΩ	100Ω...5.11MΩ	100Ω...5.11MΩ	100Ω...5.11MΩ	

*For resistors operated in ambient temperature over +70°C, power rating shall be derated like shown in above "DERATING CURVE".
Rated voltage = √Power rating x resistance value or max. working voltage, whichever is lower.

Contact our sales representatives before you use our products for applications including automobiles, medical equipment and aerospace equipment. Malfunction or failure of the products in such applications may cause loss of human life or serious damage.

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order/use.