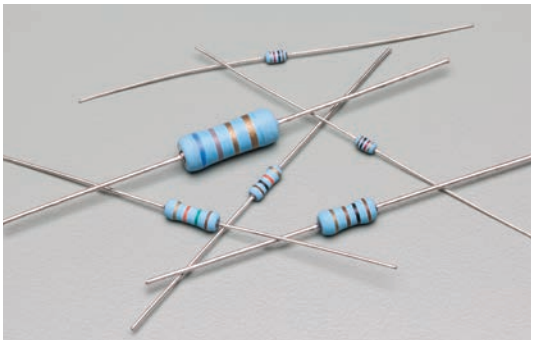
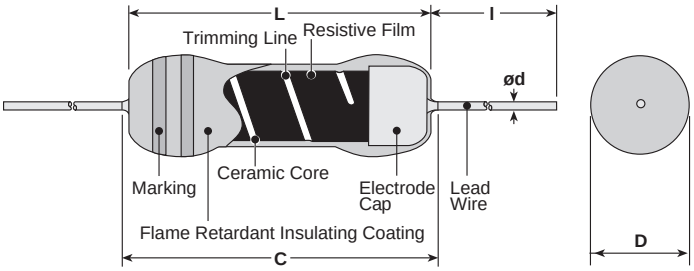


features

- Functions as a resistor in normal condition
- Quick fusing protects circuit from excessive overload at an abnormal time
- Flame-retardant coating equivalent to UL94 V-0
- Eu RoHS regulation is not intended for Pb-glass in insulation coating

EU RoHS COMPLIANT

dimensions and construction



Type	Dimensions inches (mm)				
	L	C Max.	D	d (Nominal)	l*
RF16	.125±.008 (3.2±0.2)	.134 (3.4)	.461 $^{+.010}_{-0}$ (1.7 $^{+.25}_{-0}$)	.018 (0.45)	1.18±.118 (30±3)
RF25	.248±.020 (6.3±0.5)	.280 (7.1)	.091±.012 (2.3±0.3)	.024 (0.6)	
RF50	.335±.020 (8.5±0.5)	.374 (9.5)	.118±.012 (3.0±0.3)		
RF1	.354±.039 (9.0±1.0)	.437 (11.1)	.138±.020 (3.5±0.5)	.031 (0.8)	
RF2	.610±.039 (15.5±1.0)	.709 (18.0)	.236±.039 (6.0±1.0)		

* Lead length changes depending on taping and forming type.

ordering information

RF	25	C	T52	A	100	J
Product Code	Power Rating	Terminal Surface Material	Taping & Forming	Packaging	Nominal Resistance	Resistance Tolerance
	16: 0.17W 25: 0.25W 50: 0.5W 1: 1W 2: 2W	C: SnCu	T26, T52, T521, T631, MHT, VTP, VTE, VT, GT L, M Forming	A: Ammo R: Reel	3 digits	J: ±5%

ratings

Type	Power Rating	Resistance Range E24 J: ±5%	Fusing Characteristics							T.C.R. ×10⁻⁶/K	Dielectric Withstanding Voltage
			Fusing Power						Fusing Time		
RF16C	0.17W	1.0 - 1k	—	—	—	3W 1Ω - 4.7Ω	2.5W 5.1Ω - 1kΩ	—	60s Max.	±1000: R≤4.7Ω ±350: R≥5.1Ω	250V
RF25C	0.25W	0.1 - 10k	10W 0.1 - 0.18Ω	7.5W 0.2 - 0.43Ω	6.25W 0.47 - 0.91Ω	—	3.75W 1Ω - 4.7Ω 2.4kΩ - 10kΩ	3W 5.1Ω - 2.2kΩ	30s Max.		
RF50C	0.5W	0.1 - 15k	—	—	12.5W 0.1 - 0.43Ω	—	7.5W 0.47Ω - 2Ω 1.1kΩ - 15kΩ	6W 2.2Ω - 1kΩ			300V
RF1C	1W	0.1 - 10k	—	30W 0.1 - 0.18Ω	25W 0.2 - 0.43Ω	—	15W 0.47Ω - 2Ω 1.1kΩ - 10kΩ	12W 2.2Ω - 1kΩ			350V
RF2C	2W	1.0 - 3k	—	—	—	36W 1Ω - 3.6Ω	30W 1.1kΩ - 3kΩ	24W 3.9Ω - 1kΩ			600V

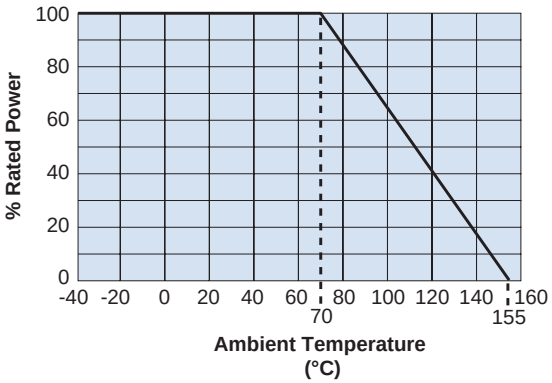
Rated Ambient Temperature: +70°C
Operating Temperature Range: −40 – +155°C

Rated voltage = $\sqrt{\text{Power Rating} \times \text{Resistance value}}$

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use. 11/16/22

environmental applications

Derating Curve



For resistors operated at an ambient temperature of 70°C or above, a power rating shall be derated in accordance with derating curve on the left.

Performance Characteristics

Test Items	Performance Requirements ΔR± (% +0.05Ω)		Test Methods
	Limit	Typical	
Resistance	Within specified tolerance	—	25°C
T.C.R.	Within specified T.C.R.	—	+25°C/+125°C
Overload (Short Time)	1%	0.5%	Rated voltage × 2.5 for 5 seconds
Resistance to Soldering Heat	1%	0.5%	350°C ± 10°C, 3.5s ± 0.5s or 260°C ± 5°C, 10s ± 1s
Rapid Change of Temperature	1%	0.5%	−40°C (30 min.)/ +85°C (30 min.) 5 cycles
Moisture Resistance	5%	2.5%	40°C ±2°C, 90% - 95% RH, 1000 hours 1.5h ON / 0.5h OFF cycle
Endurance at 70°C	5%	2.5%	70°C ± 2°C, 1000 hours 1.5h ON / 0.5h OFF cycle
Resistance to Solvent	No abnormality in appearance. Marking shall be easily legible.	—	The resistor shall be immersed in IPA for 30 sec.
Flame retardant	No evidence of flaming or self-flaming.	—	Flame test : The test flame shall be applied and removed for each 15s respsctively to repeat the cycle 5 times. Overload flame retardant: A.C. Voltage corresponding to 2, 4, 8, 16 and 32 times the power rating shall be applied for each 1min. until disconnection occurs.

Fusing Characteristics