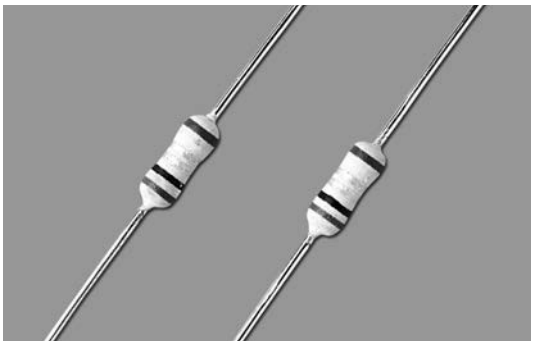
KOA SPEER ELECTRONICS, INC.

RF25CC

coat-insulated fusing resistors (constant current fusing type)

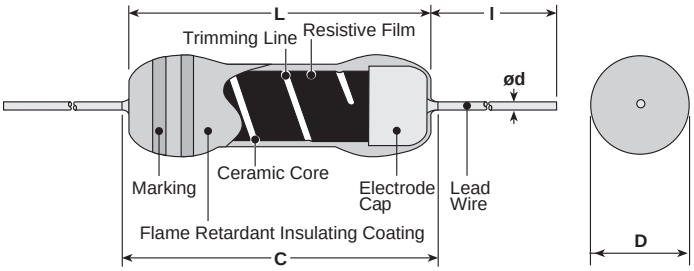
EU RoHS COMPLIANT



features

- Fuse within 60 seconds in case of over-current
- Constant current fusing type
- Fuse at low magnification at 5 times or 10 times of power rating
- Flame-retardant coating equivalent to UL94 V-0
- Products meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in insulation coating.

dimensions and construction



Type	Dimensions inches (mm)				
	L	C Max.	D	d (Nominal)	l*
RF25CC	.248±.020 (6.3±0.5)	.280 (7.1)	.091±.012 (2.3±0.3)	.024 (0.6)	1.18±.118 (30±3)

* Lead length changes depending on taping and forming type.

ordering information

RF	25	C	C	T52	A	R68	K
Product Code	Power Rating	Terminal Surface Material	Constant Current Fusing Type	Taping & Forming	Packaging	Nominal Resistance	Resistance Tolerance
	25: 0.25W	C:SnCu		T26, T52, VTP, VTE, L10A, M10X	A: Ammo R: Reel	3 digits	K:±10%

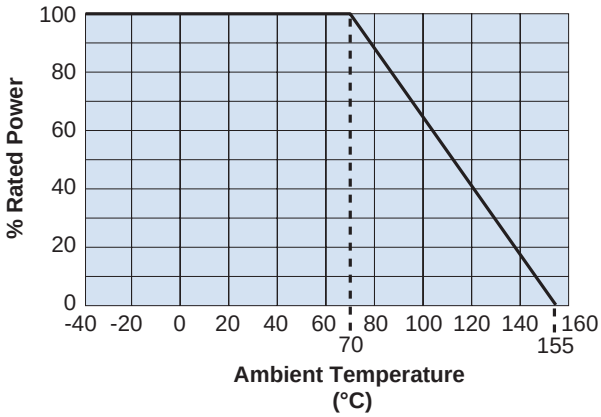
applications and ratings

Power Rating	Resistance Range(Ω) (E-24)	Resistance Tolerance	Fusing Characteristics			Dielectric Withstanding Voltage	Taping & Q'ty/AMMO (pcs)	
			Fusing Power		Fusing Time		T26A	T52A
0.25W	0.1 - 0.91	K: ±10%	2.5W 0.1Ω	1.25W 0.11Ω - 0.91Ω	60s Max.	250V	2,000	2,000

Rated Ambient Temperature: +70°C
Operating Temperature Range: -40°C - +155°C
Rated voltage = $\sqrt{\text{Power Rating} \times \text{Resistance value}}$

environmental applications

Derating Curve

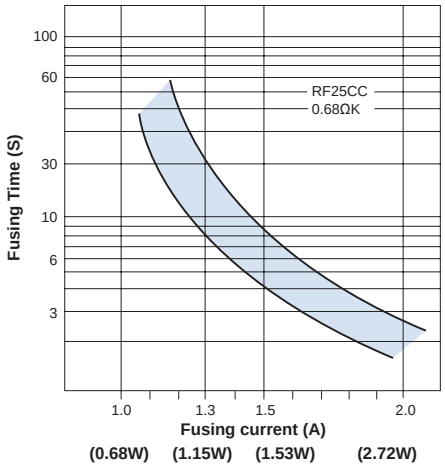


For resistors operated at an ambient temperature of 70°C or above, a power rating shall be derated in accordance with derating curve on the left.

Performance Characteristics

Test Items	Performance Requirements ΔR± (% +0.05Ω)		Test Methods
	Limit	Typical	
Resistance	Within specified tolerance	—	25°C
Resistance to Soldering Heat	5%	2.5%	350°C ± 10°C, 3.5s ± 0.5s or 260°C ± 5°C, 10s ± 1s
Humidity	5%	2.5%	40°C ± 2°C, 90% - 95%RH, 1000h No Load
Endurance at 70°C	5%	2.5%	70°C±2°C, 1000h 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 respectively 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 dis-connection occurs.

Fusing Characteristics



I-R Characteristics