

■ INTRODUCTION

The fusible resistor contains two functions in one package. It's a resistor under normal conditions and a fuse (with a predictable fusing time) when subjected to higher than normal current.

■ FUSING CHARACTERISTICS

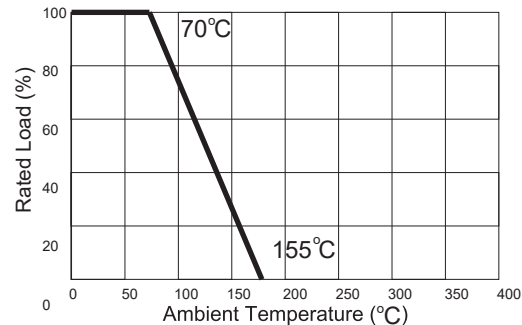
Power	Fusing Time		
	Minimum	Nominal	Maximum
16 X Wattage	3 Sec.	30 Sec.	1 Min.
20	2 Sec.	15 Sec.	30 Sec.
24	1 Sec.	5 Sec.	10 Sec.
28	0.8 Sec.	3 Sec.	7 Sec.
32	0.8 Sec.	2 Sec.	4 Sec.

- Fusing times not listed, may be available. Contact RFE International, Inc. for details.

■ FEATURES

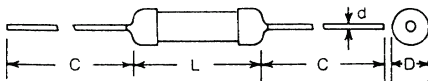
- High stability, accuracy, and reliability
- Noncombustible coating
- Uniform fusing time
- Low temperature coefficient (350ppm/°C)
- For wire wound version, see FKN

■ DERATING CURVE



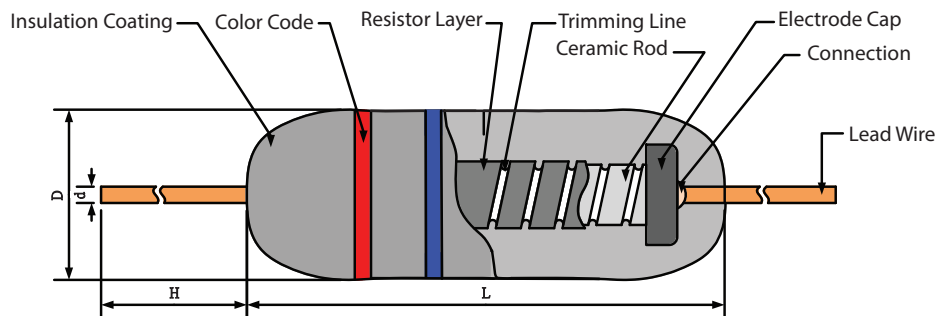
■ SPECIFICATIONS

FM



Wattage	Type	Dimension (mm)				Resistance Range (Ω)	Max. Working Voltage	Dielectric Withstanding Voltage	Std. Tolerance ± %
		L ± 1.0	D ± 0.5	C ± 3	d ± 0.05				
1/4W	FM25	6.5	2.3	30	0.55	0.1~10K	200	250	5
1/2W	FM50M	6.5	2.3	30	0.55	0.1~10K	200	250	5
1/2W	FM50	9	3.2	30	0.65	0.1~10K	250	250	5
1W	FM100M	9	3.2	30	0.65	0.1~10K	250	250	5
1W	FM100	11.5	4.5	30	0.78	0.1~10K	300	350	5
2W	FM200M	11.5	4.5	30	0.78	0.1~10K	250	350	5
2W	FM200	15.5	5.0	30	0.78	0.1~10K	350	400	5
3W	FM300M	15.5	5.0	30	0.78	0.1~10K	250	400	5

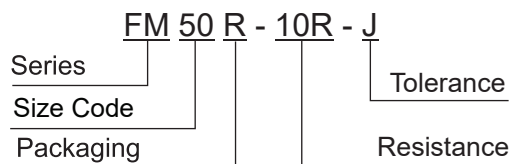
- Standard tolerance is 5% and 10% for values below 0.5Ω.



■ ELECTRICAL PERFORMANCE

Test Items	Condition	Spec.
Operating Temperature	FM	-40°C ~ +155°C
Resistance Temp. Coeff.	+30°C ~ +150°C	±350 ppm/°C
Short Time Overload	FM: 4X rated wattage for 5 sec.	±2%
Insulation Resistance	500V megger	1000M ohm
Temperature Cycle	-30°C to 85°C for 5 cycles	±1%
Load Life	70°C on-off cycle 1000 hrs	±5%
Moisture-Proof Load Life	40°C 95% RH on-off cycle for 1000 hrs	±5%
Resistance to soldering Heat	270°C ± 5°C / 10 ± Sec	±1%
Nonflammability	16 times of rated wattage for 5 min	no Flame

■ PART NUMBER EXAMPLE



■ PACKAGING

Packing Code	Description
A	Taped & Ammo
B	Loose (Bulk)
C	Cut & Form

■ RESISTANCE CODE

Ohms	0.22	2.0	22	220	2.2K	10K
Code	0R22	2R0	22R	220R	2K2	10K

■ TOLERANCE

± %	5	10
Code	J	K

■ MARKING

Resistors use the EIA 4 band marking with a fifth black band denoting a fusible resistor.