

INTRODUCTION

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

FEATURES

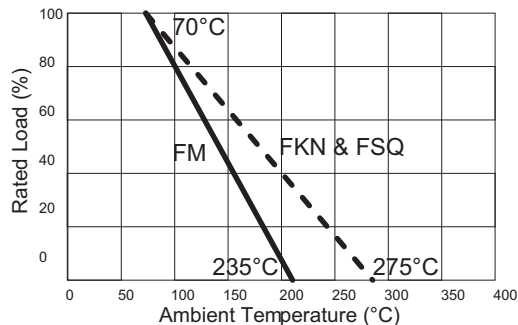
- High stability, accuracy, and reliability
- Non combustible coating
- Uniform fusing time

FUSING CHARACTERISTICS

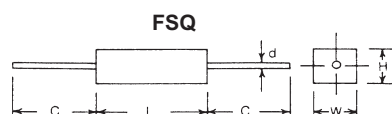
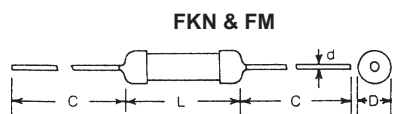
Power	Fusing Time		
	Minimum	Nominal	Maximum
16 X Wattage	3 Sec.	30 Sec.	1 Min.
20	2 Sec.	15 Sec.	30 Sec.
24	1 Sec.	5 Sec.	10 Sec.
28	0.8 Sec.	3 Sec.	7 Sec.
32	0.8 Sec.	2 Sec.	4 Sec.

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

DERATING CURVE



SPECIFICATIONS



FM is fusible metal film
FKN & FSQ is fusible wirewound

Wattage	Type	Dimension(mm)						Resistance Range (Ω)	Max. Working Voltage	Dielectric Withstanding Voltage	Std Tolerance ±%
		L±1.0	D±0.5	H±3	W±0.5	C±3	d±0.05				
1/2W	FM50M	6.8	2.6			30	0.6	0.22 - 100K	250	300	5, 10
1/2W	FM50	9	3.5			30	0.65	0.22 - 100K	250	300	5, 10
1W	FM100	9	4			30	0.65	0.22 - 100K	300	500	5, 10
2W	FM200	11	4.5			30	0.8	0.3 - 100K	350	500	5, 10
3W	FM300	15	5.5			30	0.8	0.3 - 100K	500	500	5, 10
1W	FKN1W	9	4.5			30	0.65	0.1 - 22	500	500	2, 5, 10
2W	FKN2W	11	5			30	0.8	0.1 - 80	500	500	2, 5, 10
3W	FKN3W	13	5.5			30	0.8	0.1 - 100	500	500	2, 5, 10
4W	FKN4W	17	6.5			38	0.8	0.2 - 200	500	500	2, 5, 10
5W	FKN5W	19	6.5			38	0.8	0.3 - 250	500	500	2, 5, 10
2W	FSQ2W	18		7	7	36	0.65	0.1 - 22	1000	1000	2, 5, 10
3W	FSQ3W	22		8	8	36	0.8	0.1 - 120	1000	1000	2, 5, 10
5W	FSQ5W	22		9	10	36	0.8	0.2 - 120	1000	1000	2, 5, 10
7W	FSQ7W	35		9	10	36	0.8	0.3 - 250	1000	1000	2, 5, 10
10W	FSQ10W	48		9	10	36	0.8	0.3 - 500	1000	1000	2, 5, 10

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

ELECTRICAL PERFORMANCE

Test Items	Condition	Spec.
Operating Temperature	FM FKN & FSQ	-40°C ~ +235°C -55°C ~ +275°C
Resistance Temp. Coeff.	+30°C ~ +150°C	±200 ppm/°C(R<1 ohm±440 ppm)
Short Time Overload	FM: 4X rated wattage for 5 sec. FKN & FSQ: 2.5X rated wattage for 5 sec.	±2% ±2%
Insulation Resistance	500V megger	1000M ohm
Temperature Cycle	-30°C 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%

PART NUMBER EXAMPLE

FM 50 R - 10R - J