

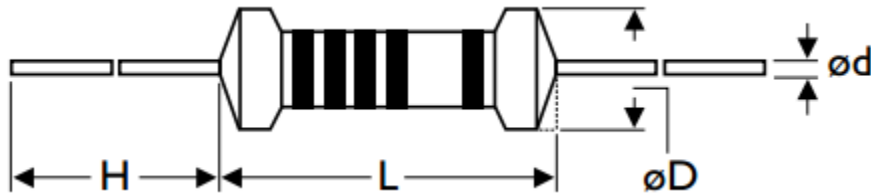
FR series Fusible Metal Film Resistors

◆ Features

- » Suitably used in transistor protection circuit
- » Small in size
- » Noncombustible insulating coating; “Solvent” proof and resistant to high temperature
- » Low temperature coefficient ($\pm 200\text{ppm} \sim \pm 350\text{ppm}/^\circ\text{C}$)
- » Uniform in fusing time



◆ Dimensions



TYPE Normal	TYPE Mini.	DIMENSION (mm)				RESISTANCE RANGE
		L	ΦD	H	d(±0.05)	
FR25	FRS50	6.3±0.5	2.3±0.3	28±3	0.55	0.5Ω-10KΩ
FR50	FRS100	9.0±0.5	3.2±0.5	28±3	0.55	0.5Ω-10KΩ
FR100	FRS200	11.5±1.0	4.5±0.5	28±3	0.60	0.5Ω-10KΩ
FR200	FRS300	15.5±1.0	5.0±0.5	32±2	0.8	0.5Ω-10KΩ

RCWV= $\sqrt{\text{Rated Power} \times \text{Resistance Value}}$

Max Overload voltage is 2 times of Max Working Voltage

Out of the resistance range is available on request.

◆ Part Number

FR	100	J	2R3	T
Type	Watt	Tolerance	R value	Packing
FR	1/4W = 25	J = ± 5%	2.3Ω = 2R3	T = Taping Box
FRS	1/2W = 50	G = ± 2%	1KΩ = 1K	B = Bulk
	1W = 100	F = ± 1%		R = Taping Reel
	2W = 200			M = M Type
	3W = 300			MB = MB Lead Form
				MK = MK Lead Form
				F = F Lead Form
				FC = FC Lead Form
				FCK = FCK Lead Form
				FKK = FKK Lead Form

◆ Electrical Characteristics

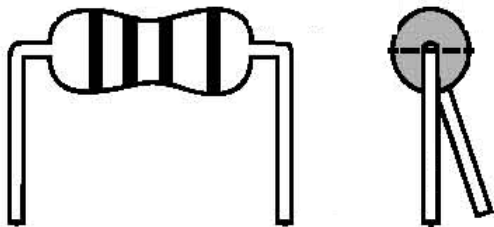
TEMPERATURE COEFFICIENT	±200~350ppm
SHORT TIME OVERLOAD	±(2%+0.05Ω)
INSULATION RESISTANCE MIN DRY	1000MΩ
LOAD LIFE	±(5%+0.05Ω)
TERMINAL STRENGTH	Tensile: ≥2.5kg
SOLDERABILITY	95% min overage
DIELECTRIC WITHSTANDING VOLTAGE	≥500V
OPERATING TEMPERATURE RANGE	-40°C TO +155°C
TOLARANCE	±5%, ±2%, ±1%
SELECTION SERIES	E-24

◆ Fusing Characteristics

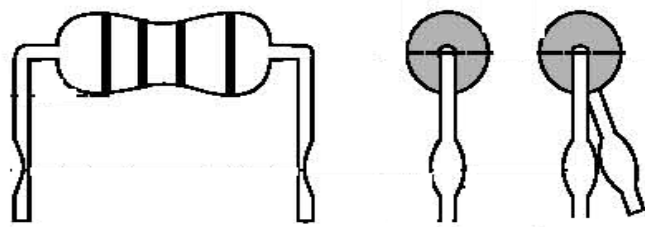
POWER RATING	FUSING TIME	
	TYPICAL (Sec.)	MAXIMUM (Sec.)
16 X Wattage	30	60
20	20	40
24	10	30
28	8	20
32	5	15

◆ Lead Forming

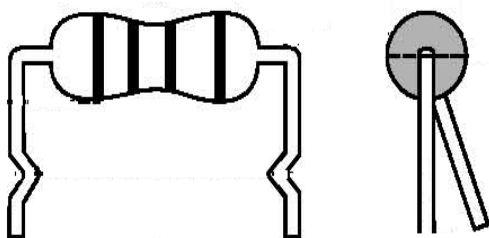
M Lead Form



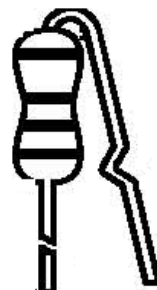
MB Lead Form



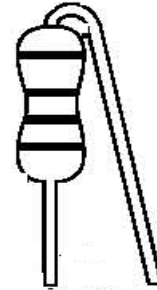
MK Lead Form



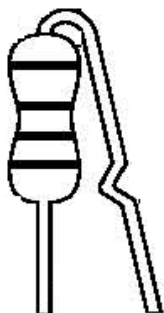
F Lead Form



FC Lead Form



FCK Lead Form



FKK Lead Form

