

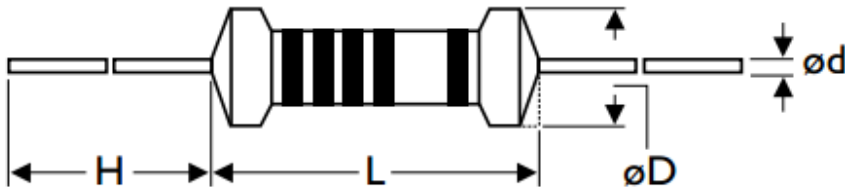
FR series Fusible Resistors

◆ 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	$d(\pm 0.05)$	
FR25	FRS50	6.3 ± 0.5	2.3 ± 0.3	28 ± 3	0.55	$0.5 \Omega - 10\text{K} \Omega$
FR50	FRS100	9.0 ± 0.5	3.2 ± 0.5	28 ± 3	0.55	$0.5 \Omega - 10\text{K} \Omega$
FR100	FRS200	11.5 ± 1.0	4.5 ± 0.5	28 ± 3	0.60	$0.5 \Omega - 10\text{K} \Omega$
FR200	FRS300	15.5 ± 1.0	5.0 ± 0.5	32 ± 2	0.8	$0.5 \Omega - 10\text{K} \Omega$

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

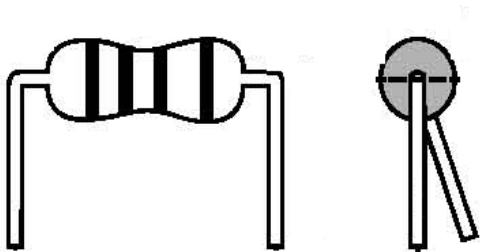
TEMPERATURE COEFFICIENT	±200~350ppm
SHORT TIME OVERLOAD	±(2%+0.05Ω)
INSULATION RESISTANCE MIN DRY	1000MΩ
LOAD LIFE	±(5%+0.05Ω)
TERMINAL STRENGTH	Tensile: ≥ 2.5kg
SOLDERABILITY	95% min overage
DIELECTRIC WITHSTANDING VOLTAGE	≥ 500V
OPERETING TEMPERATURE RANGE	-40℃ TO +155℃
TOLARANCE	±5%, ±2%, ±1%
SELECTION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

◆ **Fusing Characteristics**

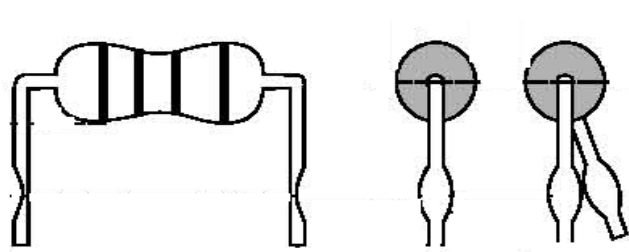
POWER RATING	FUSING TIME	
	TYPICAL (Sec.)	MAXIMUM (Sec.)
16 X Wattage	30	60
20	20	40
24	10	30
28	8	20
32	5	15

◆ **Lead Forming**

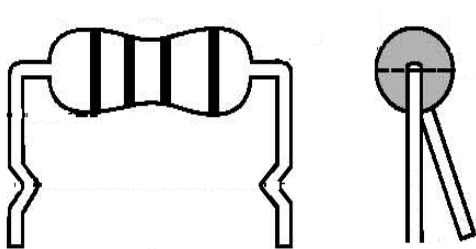
M Lead Form



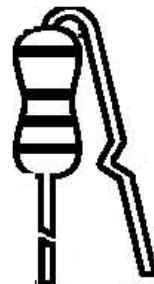
MB Lead Form



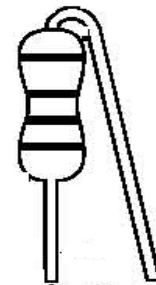
MK Lead Form



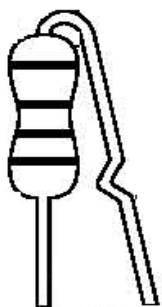
F Lead Form



FC Lead Form



FCK Lead Form



FKK Lead Form

