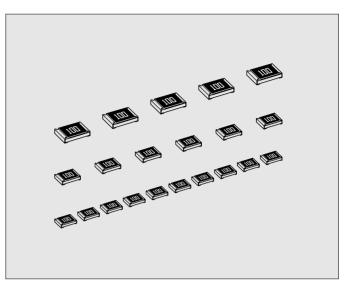
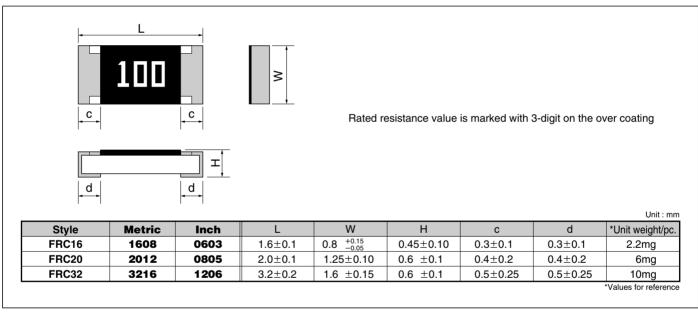
# CHIP FUSIBLE RESISTORS ; RECTANGULAR TYPE FRC

#### Features

- 1. No flame, No smoke in overload conditions.
- 2. Suitable for Battery circuit and Power supply circuit.
- 3. Please contact KAMAYA for Halogen and Antimony free product of FRC series.

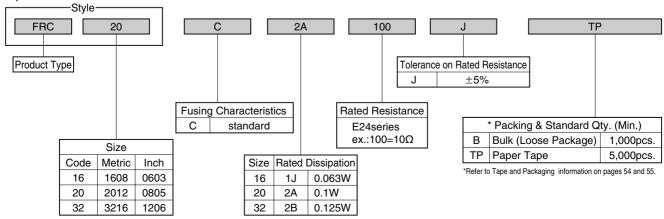


## Dimension



## Part Number Description

Example



## CHIP FUSIBLE RESISTORS; RECTANGULAR TYPE

#### Ratings

Style	Size Metric (Inch)	Rated Dissipation W	Rated Resistance Range	Tolerance on Rated Resistance	Temperature Coefficient of Resistance 10 <sup>-6</sup> /°C	Series for	Fusing Characteristic		-	Category Temperature
							Applied Power	Fusing Time	open-circuit voltage	Range °C
FRC16	1608 (0603)	0.063	3.9Ω~51Ω	J(±5%)	±1,000	E24	1.89W	- 30s max.	50V	-55~+125
FRC20	2012 (0805)	0.1	1Ω~51Ω				2.0W			
FRC32	3216 (1206)	0.125	112 0112				2.5W			

Note1. Rated Voltage =  $\sqrt{(\text{Rated Dissipation}) \times (\text{Rated Resistance})}$ . (d.c. or a.c. r.m.s. Voltage)

Note2. Contact us for further information on other style, resistance and pre-arcing time-current characteristic than those mentioned above.

Note3. Contact us for information when inrush and surge voltage are supposed to be applied.

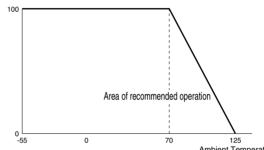
Note4. Maximum open circuit voltage is the value of voltage applicable to both ends of resistors, when a resister is open condition in a circuit.

Percentage of the rated dissipation(%)

This voltage shall be corresponding to 1,000 times the rated dissipation or maximum open circuit which is the less severe.

#### Derating Curve

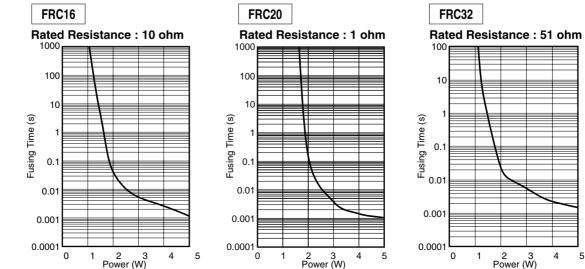
The derated values of dissipation for temperatures in excess of 70°C shall be indicated by the following Curve.



#### Performance Characteristics

Performance C	naracteristics	Ambient Temperature(°C)			
Description	Requirements		Test Method JIS C5202-1990		
Resistance	Within specified tolerance	5.1 clause			
Temperature characteristic of resistance	See Ratings Table	5.2 clause	Room temp. and 100°C above.		
Overload	∆R≤±5% No major visible damage	5.5 clause	Rated voltage ×2.5, 5s		
Resistance to soldering heat	ΔR≤±3%	6.4 clause	Dip into 260°C Solder bath for 10s.		
Rapid change of temperature	∆R≤±5% No major visible damage	7.4 clause	5 cycle between -55°C and +125°C.		
Endurance in humidity	∆R≤±5% No major visible damage	7.9 clause	Rated voltage, 1.5h "ON", 0.5h "OFF", 40 95%R.H., 1,000h.		
Endurance at 70°C	ΔR≤±5% No major visible damage	7.10 clause	Rated voltage, 1.5h "ON", 0.5h "OFF", 70°C, 1,000h.		

## •Example of Typical Fusing Characteristics



### FRC