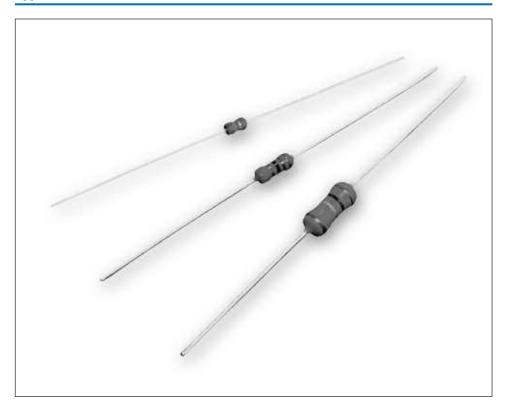


Key Features

- Metal film technology
- Non-flammable
- High power in small package
- High stability, reliability and uniformity characteristics
- Good performance for pulse applications
- Defined interruption behavior (fusing time)
- Various forming styles



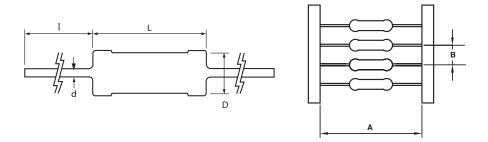
The RR Series is manufactured by depositing a homogeneous film of metal alloy onto a high-grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with a red, non-flammable lacquer, which provides electrical, mechanical and climatic protection. The coating is resistant to all cleaning solvents in accordance with MIL-STD-202, method 215 and IEC 60068-2-45.

Characteristics - Electrical							
Liooti loti	RR01 RF		R02	RR03			
Resistance Range:	0.22Ω-1ΜΩ 10R - 1Μ0 0.33Ω		0.33Ω-1ΜΩ	10R - 1M0	0.33Ω-1ΜΩ	10R - 1M0	
Tolerance and Series:	±5%, E24	±1%, E24/E96	±5%, E24	±1%, E24/E96	±5%, E24	±1%, E24/E96	
Maximum Dissipation: at T _{amb} . = 70°C	1W		2W		3W		
Thermal Resistance:	120k/W		80k/W		65k/W		
Limiting Voltage (DC or RMS):	350V		500V		750V		
Rated Voltage (1):	Pn x R						
Temperature Coefficient:	±300ppm/°C						
Basic Specification:	IEC 60115-1 and 60115-4						
Climatic Category (IEC 60068):	55/155/56						
Stability AR/R Max. After:	Fo	r tolerance :	5% Fo		r tolerance 1%		
Load	±5.0% +0.1Ω			±1.0% +0.1Ω			
Climatic Tests	±3.0% +0.1Ω			±1.0% +0.1Ω			
Resistance to Soldering Heat	±	1.0% +0.05	Ω	±0.5% +0.05Ω			

⁽¹⁾ Maximum rated voltage is the limiting voltage



Dimensions

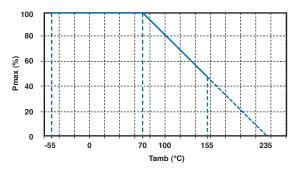


	A ±1	В	L ±1	øD ±0.5	ød ±0.1	l ±3
RR01	52	5 ±0.5	6.8	2.6	0.65	30
RR02	52	5 ±0.5	9.0	3.5	0.8	30
RR03	63	10 ±1	15.0	5.0	0.8	30

Mounting

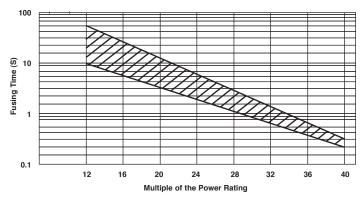
The resistors are suitable for processing on automatic insertion equipment, cutting and bending machines.

Derating Curve



Maximum dissipation (Pmax) in percentage of rated power as a function of ambient temperature (Tamb)

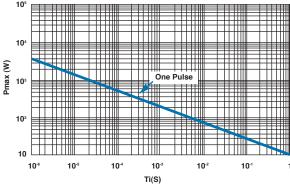
Fusing Characteristics





Pulse Characteristics -

1W



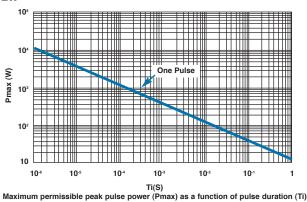


Condition Test: Resistance change ≤±5% with pulse 1000 cycles as like the figure (reference only).

- Added power and added voltage are within the lower teritory of this graph.
- 2. Added in normal temperature and humidity.

Maximum permissible peak pulse power (Pmax) as a function of pulse duration (Ti)

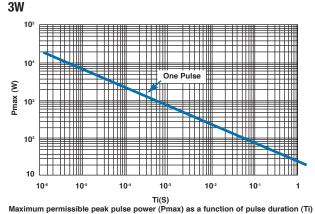
2W

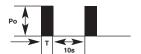


Condition Test: Resistance change ≤±5% with pulse 1000 cycles as like the figure (reference only).

- Added power and added voltage are within the lower teritory of this graph.
- Added in normal temperature and humidity.

...





Condition Test: Resistance change ≤±5% with pulse 1000 cycles as like the figure (reference only).

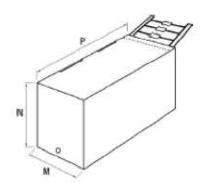
- Added power and added voltage are within the lower teritory of this graph
- Added in normal temperature and humidity.

Marking

The nominal resistance and tolerance are marked on the resistor using four or five coloured bands in accordance with IEC publication 60062 "Colour code for fixed resistors". Standard values of nominal resistance are taken from the E24/E96 series for resistors with a tolerance of $\pm 5\%$ or $\pm 1\%$. The values of the E24/E96 series are in accordance with IEC publication 60063.

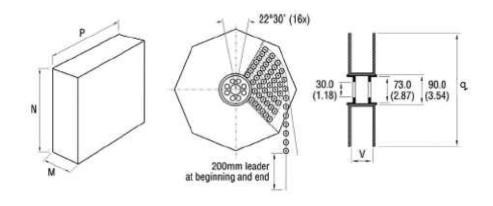


Packaging -Ammo Pack Boxed



	М	N	Р	Quantity
RR01	75	100	255	5000
RR02	75	55	255	1000
RR03	100	110	265	1000

Packaging - Tape and Reeled



	Taping	М	N	Р	q	V	Quantity pcs.
RR01	52 ±1.0	80	295	295	310	75	5000
RR02	52 ±1.0	80	295	295	310	75	2500
RR03	63 ±1.0	80	295	295	310	75	1000

How to Order RR 1K0 TR 01 **Common Part Power Rating Packaging Tolerance Value** 100 ohm (100 ohms) 100R 01 - 1 Watt J - 5% TR - Reeled RR - Power Resistor 02 - 2 Watts (1000 ohms) 1K0 F - 1% TB - Ammo Pack 100 K ohm 03 - 3 Watts (100,000 ohms)

100K

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FRN25J330R FRN50J1R0S H4100RBYA H415RBZA H41K1BYA H41K5BYA H41M0BDA H420R5BCA H421R5BZA H4221RBYA H424K3BDA H442K2BDA H45K62BZA H4634RBZA H473R2BZA H4931KBZA H8160KFDA H8274KBZA H82K0FDA H82K0FZA H87K5DYA RLR05C6201GS HR01623J HR01682J 270-1.69M-RC LR0204F110R LR0204F18R LR0204F20K LR0204F20R LR0204F510R LR1F121R LR1F133K LR1F383R LR1F3K01 LR1F4K75 LR2F330RJIT LR2F51R LR2F910R ERX-2SZJR20E SQMR74K7J FMF-25FTF52-100K FRN50J100RS FRN50J470RS H4100RBZA H414R3BZA H415KBYA H4174KBZA H4174RBDA H41K21BYA H41K43BDA