

RFR Series

Fusible Resistor – Flameproof

TRIGON
COMPONENTS



FEATURES

- Compact size.
- Suitable for protecting circuit boards.
- Flameproof coating which is solvent-proof and resistant to high temperature.
- Low temperature coefficient (less than $\pm 200\text{ppm}/^\circ\text{C}$)
- Uniform fusing time.

ORDERING CODE

RFR L 300 J 7 B MG

(1) (2) (3) (4)(5) (6) (7)

(1) Fusible Resistor, Flameproof

(2) Fusing Characteristic
L or R (see Fusing Characteristics table on next page)

(3) Rated Resistance
3-digit IEC Code (E-24)
4-digit IEC Code (E-96)

(4) EIA Tolerance Code
F= $\pm 1\%$, G= $\pm 2\%$, J= $\pm 5\%$, K= $\pm 10\%$

(5) Rated Wattage Type
B = 1/4 W
C = 1/2 W
7 = 3/4 W
D = 1 W
E = 2 W
F = 3 W

(6) Packing Code
B=Bulk
A=Tape in Box
T=Tape and Reel

(7) Terminal Forming
MG, FT, FF, FK, KK (see next page)
(Leave blank for no forming)

DIMENSIONS (mm)

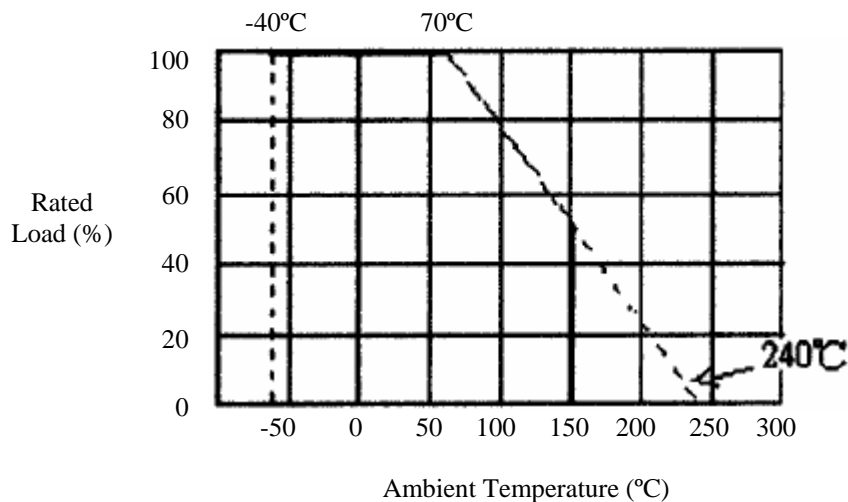
RFRL	RFRR	L (± 1.0)	D (± 0.5)	H (± 3)	d (± 0.05)	Max Working Voltage	Dielectric Withstand Voltage
1/4 W	1/2W	6.8	2.6	30	0.60	250V	300V
	3/4W	9	3	30	0.65	300V	350V
1/2W	1W	9	3.5	30	0.65	300V	500V
1W	2W	11	4.5	30	0.8	350V	500V
2W	3W	15	5	30	0.8	500V	500V

Resistance Values: 0.22 Ω to 100K Ω (IEC E-24: R22 to 104)

RCWV* = $\sqrt{\text{Rated Power} \times \text{Resistance Value}}$ or Max Working Voltage listed above.

* Rated Continuous Working Voltage

DERATING CURVE



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Resistor

FUSING CHARACTERISTICS

Resistance Range	FUSING POWER	
	RFRL	RFRR
0.22 Ω to 1Ω	Rated Power x 32	Rated Power x 16
1.1 Ω to 2 Ω	Rated Power x 25	
2.1Ω to 10Ω	Rated Power x 16	
10.1Ω to 10KΩ	Rated Power x 12	
10KΩ to 100KΩ		
Note: Fusing Time Within 60 seconds		

TERMINAL FORMING



RFRL	RFRR	L ± 1	D ± 0.5	P	H	h ± 1	A ± 0.02	B ± 0.05	C ± 0.2
1/4W	1/2W	6.8	2.6	10 ± 1	7 ± 1	4.5	0.23	0.8	1.2
	3/4W	9	3	12.5 ±	7 ± 1	4.5	0.23	0.8	1.2
1/2W	1W	9	3.5	15 ± 1.5	7 ± 1	4.5	0.23	0.8	1.2
1W	2W	11	4.5	15 ± 1.5	7 ± 1	4.5	0.25	1	1.4
2W	3W	15	5	20 ± 2	10 ± 2	4.5	0.25	1	1.4

FT:	FF:	FK:	KK:	RFRL	RFRR	L ± 1	D ± 0.5	A +1 -0.5
					3/4W	9	3	3.5
				1/2W	1W	9	3.5	3.5
				1W	2W	11	4.5	3.5
				2W	3W	15	5	3.5

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ELECTRICAL PERFORMANCE

TEST ITEMS	CONDITION	SPEC	TEST METHOD
			JIS C-5202
Operating Temperature	-55°C to +125°C	-	-
Resistance Temp. Coefficient	-30°C to +150°C	± 300 ppm / °C	5.2
Short Time Overload	2.5 times of rated voltage for 5s.	± 2%	5.5
Insulation Resistance	500V megger	1,000 MΩ	5.6
Temperature Cycle	-30°C to +85°C for 5 cycles	± 1%	7.4
Load Life	70°C on-off cycle for 1,000 hrs.	± 5%	7.10
Moisture-Proof Load Life	40°C 95% RH on-off cycle 1,000 hrs.	± 5%	7.9
Solder Pot	270°C for 3 sec.	± 1%	6.4
Incombustibility	16 times of rated wattage for 5 min.	No flame	7.13