

FR series

Metal Film Fusible Resistor



- Wide Resistance Range
- High Stability
- Flameproof Coating
- RoHS Compliant and Halogen Free
- Provide an Excellent Fusing Characteristic for Circuit Protection in Case of Overload or Component Failure

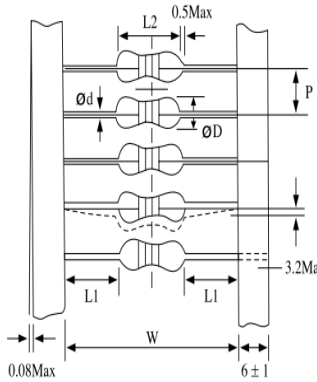
■ SPECIFICATIONS

ITEM	SPECIFICATION	
Shot Time Over Load	$\pm(1\%+0.05\Omega)$	Voltage Rating x 2.5 5sec
Resistance To Soldering	$\pm(1\%+0.05\Omega)$	350 °C / 3sec
Load Life	$\pm(5\%+0.05\Omega)$	1,000Hrs
Residual Resistance		Over than 100times of the nominal resistance

■ RATING . FUSING CHARACTERISTICS

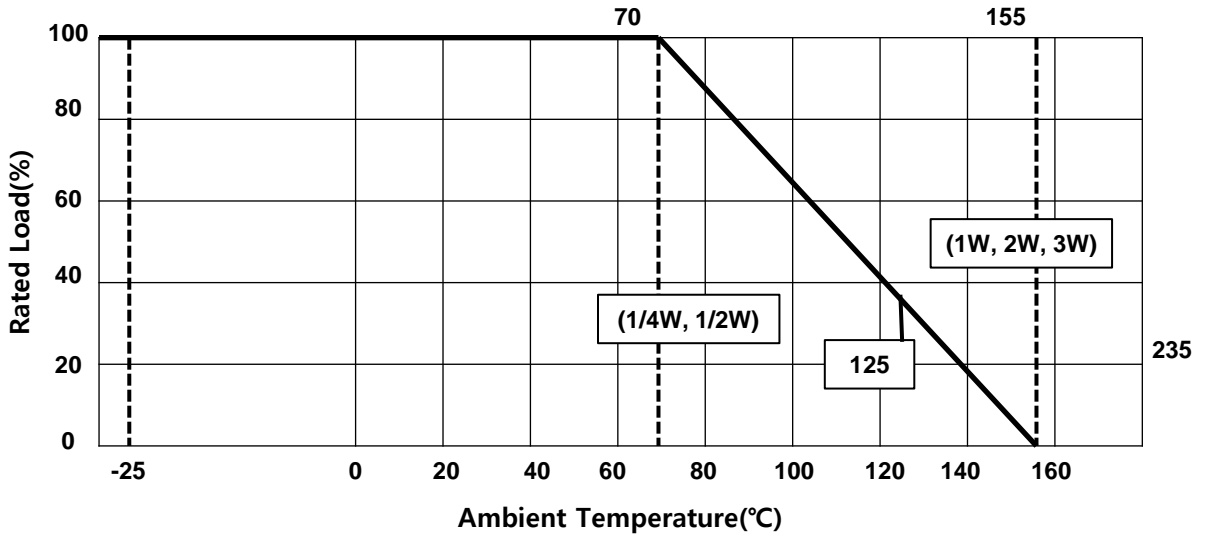
TYPE	Power Rating	Max. Open circuit Voltage (v)	Magnification of Power Rating						Resistance Range	Fusing Time	Rating Ambient Temp	Operating Temp. Range	Resistance Tolerance
			×40	×30	×25	×18	×15	×12					
FR 1/4 W	1/4W	220V	0.1Ω-0.18Ω	0.2Ω-0.43Ω	0.2Ω-0.43Ω	-	1Ω-4.7Ω 2.4KΩ-10KΩ	5.1Ω-2.2KΩ	0.1Ω - 10KΩ	30sec . max.	+70 °C	-40 °C ~ +155 °C	E-24 J(±5%)
FR 1/2 W	1/2W	250V	-	-	0.2Ω-0.43Ω	-	0.47Ω-2Ω 1.1KΩ-10KΩ	2.2Ω-1KΩ					
FR 1 W	1W	300V	-	0.1Ω-0.18Ω	0.2Ω-0.43Ω	-	0.47Ω-2Ω 1.1KΩ-10KΩ	2.2Ω-1KΩ					
FR 2 W	2W	300V	-	-	-	0.1Ω-3.6Ω	1KΩ-3KΩ	3.9Ω-1KΩ	0.1Ω - 3.6KΩ				
FR 3 W	2W	300V	-	-	-	0.1Ω-3.6Ω	1KΩ-3.6KΩ	3.9Ω-1KΩ					

■ DIMENSIONS



Type	W	L1	d	L2	P	D
FR 1/4W	52±1.0	23±1.0	0.50±0.05	6.4±0.2	5.0±1.0	2.4±0.2
FR 1/2W	52±1.0	21.5±1.0	0.60±0.05	9.0±0.4	5.0±1.0	3.3±0.2
FR 1W	64±1.0	26±1.0	0.70±0.05	12.0±1.0	5.0±1.0	4.3±0.3
FR 2W	64±1.0	24±1.0	0.80±0.05	16.0±1.0	10.0±1.0	6.0±0.5
FR 3W	64±1.0	24±1.0	0.80±0.05	16.0±1.0	10.0±1.0	6.0±0.5

■ DERATING CURVES



■ HOW TO ORDER

FR	1/4W	10KΩ	J
TYPE	POWER RATING	NOMINAL RESISTANCE	RESISTANCE TOLERANCE

www.resistors.co.kr

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