

Applications And Ratings

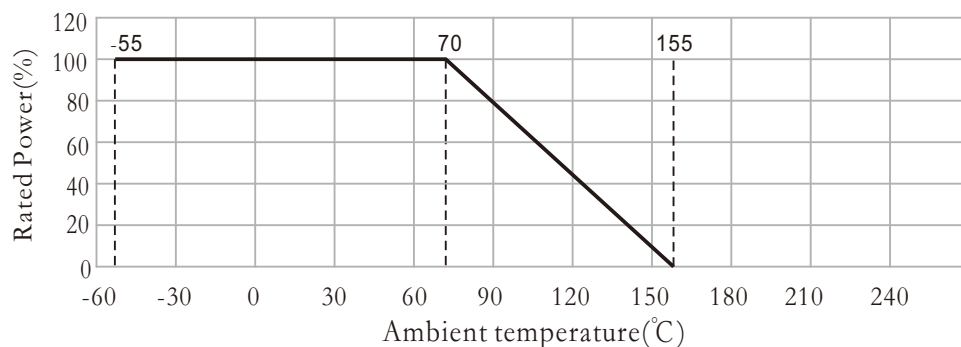
Type	Power	Resistance Range (Ω)	Max. working voltage	Max. overload voltage	Max. Pulse voltage	Max. Insulation voltage
MFR016	1/6W	0R1~22M	150V	300V	500V	300V
MFR14S	1/4WS	0R1~22M	150V	300V	500V	300V
MFR014	1/4W	0R1~22M	250V	500V	750V	500V
MFR12S	1/2WS	0R1~22M	250V	500V	750V	500V
MFR012	1/2W	0R1~22M	350V	700V	1000V	700V
MFR01S	1WS	0R1~22M	350V	700V	1000V	700V
MFR01B	1W	0R1~22M	500V	1000V	1000V	1000V
MFR02S	2WS	0R1~22M	500V	1000V	1000V	1000V
MFR02B	2W	0R1~22M	500V	1000V	1000V	1000V
MFR03S	3WS	0R1~22M	500V	1000V	1000V	1000V
MFR03B	3W	0R1~22M	700V	1200V	1200V	1000V
MFR04	4W	0R1~22M	700V	1200V	1200V	1000V
MFR05S	5WS	0R1~22M	700V	1200V	1200V	1000V
MFR05	5W	0R1~22M	700V	1200V	1200V	1000V

Note: a、"S" means small size.

b、Rated voltage= $\sqrt{\text{Power} \times \text{Resistance Value}}$

c、If the rated voltage calculated is higher than max.working voltage, follow the lower value.

Derating Curve



Performance

Test Items	Performance	Test Methods(JIS C 5201-1)
Temperature coefficient	$\pm 50\text{ppm}/^{\circ}\text{C} \pm 100\text{ppm}/^{\circ}\text{C}$	Test resistance value at normal temperature and normal temperature added 100°C, calculate °C resistance value change rate.
Short time overload	$\Delta R \leq \pm (0.5\%R_0 + 0.05\Omega)$	2.5X rated power or Max. overload voltage(get the lower) for 5seconds.
Pulse overload	$\Delta R \leq \pm (1\%R_0 + 0.05\Omega)$	At 4Xrated power or Max. pulse overload voltage(get the lower)cycle 10000 \pm 200 times (1second on 25 seconds off)
Resistance to soldering heat	$\Delta R \leq \pm (0.5\%R_0 + 0.05\Omega)$	Immerge into the 350 \pm 10°C tin stove for 2~3 seconds
Solderability	Tth soldering area is over 95%	Immerge into the 245 \pm 3°C tin stove for 2~3 seconds
Temperature cycle	$\Delta R \leq \pm (0.5\%R_0 + 0.05\Omega)$	At -55°C for 30min, then at +25°C for 10~15min, then at +125°C for 30min, then at +25°C for 10~5, min, total 5cycles.
Load life in humidity	$\Delta R \leq \pm (2\%R_0 + 0.05\Omega)$	Overload rated voltage or Max.working voltage(get the lower)for 1000hours(1.5hours on and half-hour off) at the 40 \pm 2°C and 90~95% relative humidity.
Load life in heat	$\Delta R \leq \pm (2\%R_0 + 0.05\Omega)$	Overload rated voltage or Max.working voltage(get the lower)for 1000hours(1.5hours on and half-hour off) at the 70 \pm 2°C.