

Resistor

ER1 - Carbon Film Fixed Resistor

ELECSOUND®

Elecsound is a manufacturer of resistors. we offer carbon film resistors, metal film resistors, cement type resistors, Metal Oxide film resistors and SMD resistors.

Stable performance, extensive resistance, small size, high operating temperature and high ultimate voltage

Highly adaptive pulse load, good high frequency performance

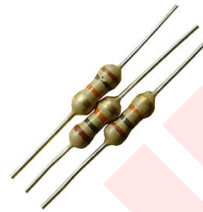
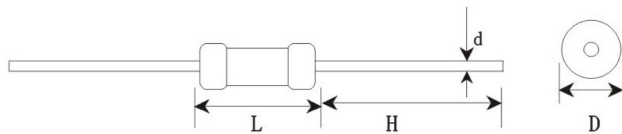
Operating ambient temperature : -55°C to +125°C

Rohs Compliant

Electrical Characteristics

Item	Performance Requirement	Test Methods
Temperature Coefficient	-1000PPM/°C ≤ a ≤ +350PPM/°C	JIS5202-5.2
Short time Overload	ΔR ≤ ±(1%R. +0.05R)	JIS5202-5.5
Pulse Overload	ΔR ≤ ±(2%R. +0.05R)	JIS5202-5.8
Resistance to Soldering Heat	ΔR ≤ ±(1%R. +0.05R)	JIS5202-6.4
Solderability	The area of soldering is over 95%	JIS5202-6.5
Temperature Cycling	ΔR ≤ ±(1%R. +0.05R)	JIS5202-7.4
Load Life in Humidity	ΔR ≤ ±(5%R. +0.1R)	JIS5202-7.9
Load Life	ΔR ≤ ±(5%R. +0.1R)	JIS5202-7.10

Diameter And Size(Unit: mm)



Part No.	Dimensions (mm)				Resistance Range (OHM)		Tolerance
	L±1.0	D±0.5	H±2	d±0.05	Min. Value	Max. Value	
ER1-1/6W(1/4Ws)	3.5	1.7	28.0	0.45	1R	22M	±5%
ER1-1/4W(1/2Ws)	6.0	2.3	28.0	0.54	1R	22M	±5%
ER1-1/2W(1Ws)	9.8	3.2	26.0	0.58	2R2	10M	±5%
ER1-1W(2Ws)	11.5	4.5	26.0	0.78	2R2	10M	±5%
ER1-2W(3Ws)	15.0	5.0	26.0	0.78	2R2	10M	±5%
ER1-3W	17.0	6.0	30.0	0.78	2R2	10M	±5%
ER1-5W	25.0	8.0	35.0	0.78	2R2	10M	±5%

Note: "s" means small size type,

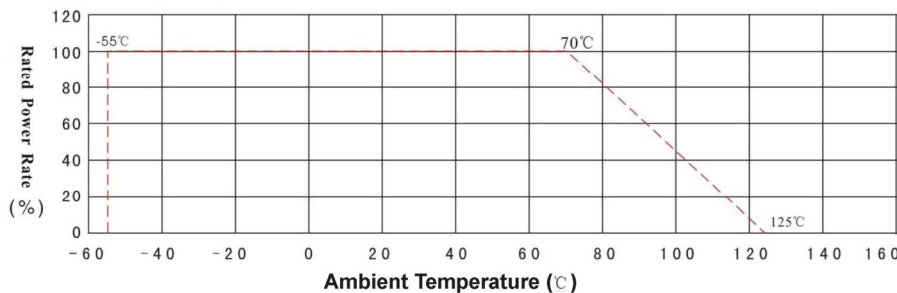
Special Resistance available

Performance Parameters

Parameters	Power Rated	Max. Working Voltage	Max. Overload Voltage	Max. Pulse Overload Voltage	Withstand Voltage
	1/6W	200V	400V	500V	300V
	1/4Ws	200V	400V	500V	300V
	1/4W	250V	500V	750V	500V
	1/2Ws	250V	500V	750V	500V
	1/2W	350V	700V	1000V	700V
	1Ws	350V	700V	1000V	700V
	1W	500V	1000V	1000V	1000V
	2Ws	500V	1000V	1000V	1000V
	2W	500V	1000V	1000V	1000V
	3Ws	500V	1000V	1000V	1000V

Power Rated Derating Curve

Rated Power Derating Curve



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