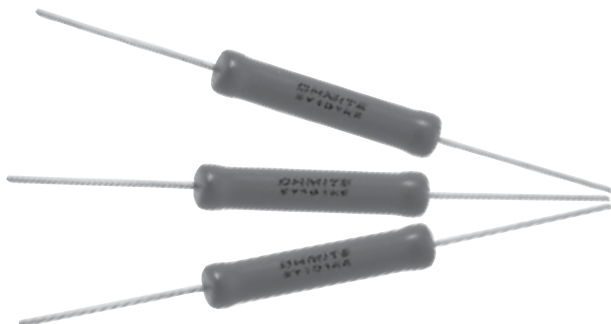


EY Series

Ceramic Composition
10% Tolerance



FEATURES

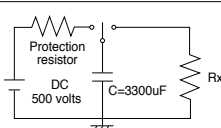
- Suitable for automatic machine insertion
- Ideal for high energy/high peak power applications
- Products with lead-free terminations meet EU RoHS requirements
- Higher reliability against disconnection compared to wirewound resistors and film resistors

SERIES SPECIFICATIONS

Series	Watts max.*	Resistance range	Tolerance	Joules max.**	Max. working volts
EY	2.5	10Ω - 390KΩ	±10%	400	550

* at 25°C. **For a single impulse.

CHARACTERISTICS

Test	Condition	Requirement $\Delta R \pm (+0.05\Omega)$
Resistance	Resistance	Within regulated to tolerance
	Measurement voltage	
	3.3Ω~8.2Ω 0.3V 25°C	
	10Ω~82Ω 1.0V	
	100Ω~390kΩ 3.0V	
TCR	+25°C/-40°C and +25°C/+125°C	<100Ω: -900+/- 300ppm ≥100Ω: -1200+/-300ppm
Voltage Coefficient	Rated voltage and rated voltage x 10% (Apply for over 1kΩ)	0~-0.05%/V
Overload	Rated voltage x 2.5 or maximum overload voltage for 5s, whichever less	±2% limit; 0.4% typical
Single impulse rating	The resistor mounted to the test circuit at right. Single impulse test of 10 ohm resistor resulting in 3.3ms.	±5%
		
Resistance to soldering heat	350°C±10°C, 3.5s±0.5s	±2% limit; 0.8% typical
Rapid change of temperature	-40°C(30min.)/+85°C(30min.), 5 cycles	±2% limit; 0.4% typical
Moisture resistance	40°C±2°C, 90%~95%RH, 1000h, 1.5h ON/0, 5h OFF cycles	±5% limit; 0.6% typical
Load life	40°C±2°C, 1000h, 1.5h ON/0, 5h OFF cycles	±5% limit; 0.4% typical
Resistance to Solvent	Dipping in IPA or Xylene for 3 minutes and leaving for 10 minutes after removing drops, then brushing 10 times.	No abnormality in appearance. Marking shall be easily legible.
Pulse Tolerance	200V, 112 Joules, 10000 cycles, 5600uf capacitor discharge, 26 second rest time	±2%

Power Rating Based on 25°C free air rating

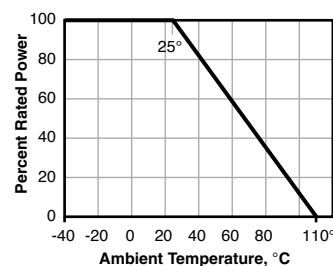
TCR -900±300: R<100Ω
-1200±300: R≥100Ω

Voltage Abs. max. working: 550V
Abs. max. overload: 1100V
Abs. max. pulse: 25kV

Operating Temp. Range -40°C to +110°C

Tolerance ±10% standard

Derating



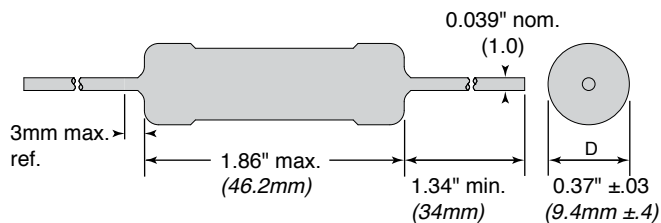
(continued)

EY Series

Ceramic Composition
10% Tolerance

DIMENSIONS

in./mm



ORDERING INFORMATION

RoHS Compliant

E Y 1 0 1 K E

Series	Ohm Value	Tolerance
	Example:	K = 10% Standard
	100 = 10Ω	
	101 = 100Ω	
	102 = 1,000Ω	

Standard values

EY100KE	EY471KE
EY150KE	EY681KE
EY180KE	EY102KE
EY270KE	EY152KE
EY330KE	EY272KE
EY470KE	EY472KE
EY680KE	EY103KE
EY101KE	EY153KE
EY151KE	EY473KE
EY271KE	EY104KE