### **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 - 390ΚΩ	±10%	400	550

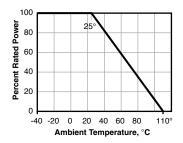
<sup>\*</sup> at 25°C. \*\*For a single impulse.

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Test	Condition			Requirement ΔR ±( +0.05Ω)
Resistance	Resistance $3.3\Omega$ ~8.2Ω $10\Omega$ ~82Ω $100\Omega$ ~390kΩ	Measurement voltage 0.3V 2 1.0V 3.0V	t 5°C	Within regulated to tolerance
TCR	+25°C/-40°C and +25°C/+125°C		5°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	circuit at right	The resistor mounted to the test circuit at right. Single impulse test of 10 ohm resistor resulting in 3.3ms.		±5%  Protection resistor DC C=3300uF Rx

	in 3.3ms.	DC
Resistance to sol- dering 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 resis- tance	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.

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)

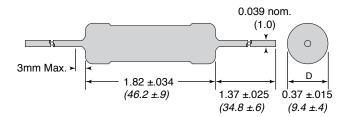




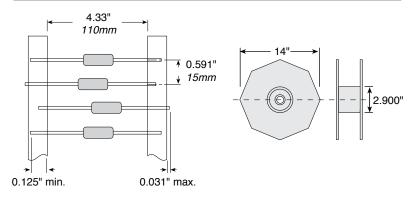
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#### DIMENSIONS

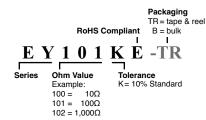
in./mm



### **Tape and Reel Dimensions**



#### ORDERING INFORMATION



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