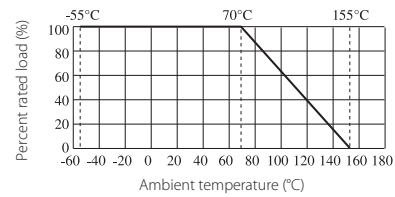


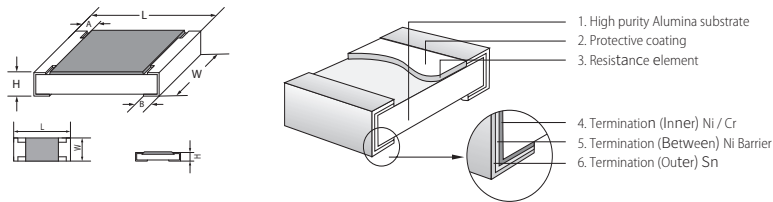
Feature

- Anti-Electro Static Discharge
- High voltage
- Suitable for reflow & wave soldering
- Application Medical Devices, Industrial Controls, AV adapter, Flash lamp of camera, Automotive Industry, Outdoor Equipments

Derating Curve



Figures



Specification

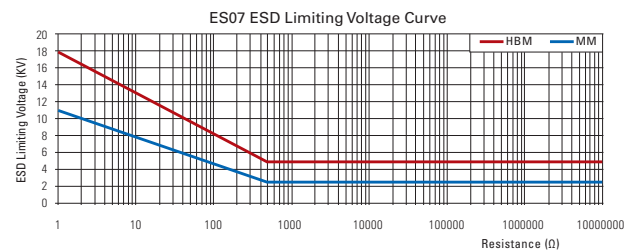
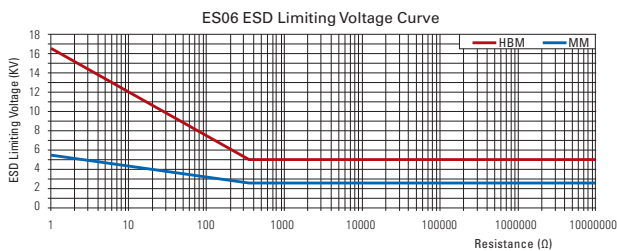
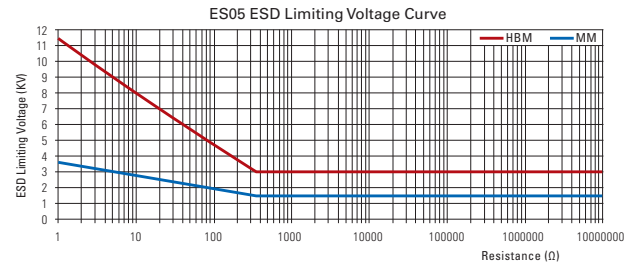
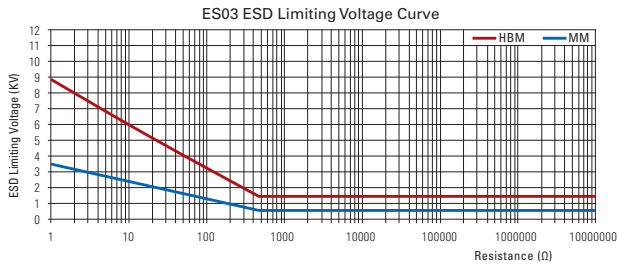
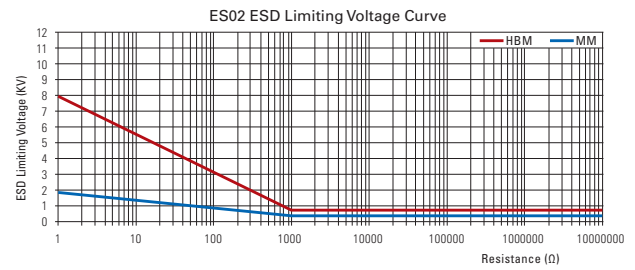
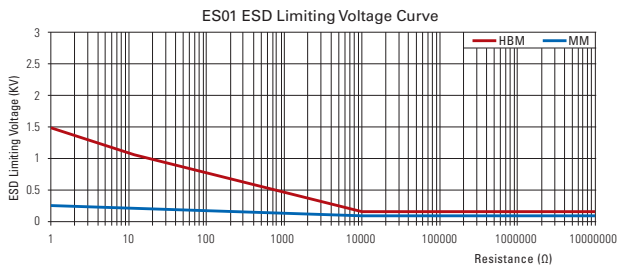
Type	Size	Max working voltage	Max Overload Voltage	Dielectric Withstanding Voltage	Operating Temperature
ES01	0201 (0603)	25V	50V	/	-55~+155°C
ES02	0402 (1005)	50V	100V	100V	
ES03	0603 (1608)	150V	200V	300V	
ES05	0805 (2012)	200V	400V	500V	
ES06	1206 (3216)	500V	1000V	500V	
ES07	1210 (3225)	800V	1500V	500V	

Type	Power (70°C)	L (mm)	W (mm)	H (mm)	A(mm)	B (mm)	Resistance Range 1% & 5%
ES01	1/20W	0.60±0.03	0.30±0.03	0.23±0.03	0.10±0.05	0.15±0.05	1Ω~10MΩ
ES02	1/16W	1.00±0.10	0.50±0.05	0.35±0.05	0.20±0.10	0.25±0.10	
ES03	1/4W	1.60±0.10	0.80±0.10	0.45±0.10	0.30±0.20	0.30±0.20	
ES05	2/5W	2.00±0.15	1.25 ^{+0.15} _{-0.10}	0.55±0.10	0.40±0.20	0.40±0.20	
ES06	2/3W	3.10±0.15	1.55 ^{+0.15} _{-0.10}	0.55±0.10	0.45±0.20	0.45±0.20	
ES07	1/2W	3.10±0.10	2.60±0.20	0.55±0.10	0.50±0.25	0.50±0.20	

Performance Specifications

Temperature coefficient	ES01:	1Ω≤R≤10Ω: ±400ppm/°C 10Ω<R≤10MΩ: ±200ppm/°C	Humidity (Steady State)	±1%:±(0.5%+0.1Ω) ±5%:±(3.0%+0.1Ω)
	ES02~ES07:	1Ω≤R≤10Ω: ±200ppm/°C 10Ω<R≤10MΩ: ±100ppm/°C		Dielectric withstanding voltage
Short-time overload	±1%:±(1.0%+0.1Ω) ±5%:±(2.0%+0.1Ω)		Rapid change of temperature	±1%:±(0.5%+0.05Ω) ±5%:±(1.0%+0.05Ω)
Terminal Bending	±(1.0%+0.05Ω)		Load life	±1%:±(1.0%+0.1Ω) ±5%:±(3.0%+0.1Ω)
Solderability	Coverage must be over 95%.		ESD	±(1.0%+0.05Ω)
Soldering heat	±(1.0%+0.05Ω)			

ESD Limiting Voltage Curve



NOTE: HBM:100PF 1K5 1Cycle; MM:200PF 0Q 1Cycle

Ordering Procedure (Example: ES06 2/3W 5% 1.2Ω T/R-5000)

E S 0 6

Product Type:
Fill-in 4 digits with the Chip resistor type as follow:
ES01, ES02, ES03, ES05, ES06, ES07

W K

Wattage:
Fill-in 2 digits with the codes as follow:
WM=1/20W
WG=1/16W
WA=1/10W
W8=1/8W
W4=1/4W
W3=1/3W
WK=2/3W
07 = 3/4W
04 = 2/5W

J 0 1 2 J

Resistance Value:
5% (E-24 series):
the 1st digit is "0", the 2nd & 3rd digits are for the significant figures of the resistance and the 4th indicate the numbers of zeros following;
1% (E-96 series):
the 1st to 3rd digits are for the significant figures of the resistance and the 4th indicate the numbers of zeros following.

Tolerance:
F=±1% J=±5%

T 5 E

Packing Qty.:
5=5,000pcs
c=10,000pcs
E=15,000pcs

Special Feature:
E = Lead Free (standard)

Packing Type:
T = T/R