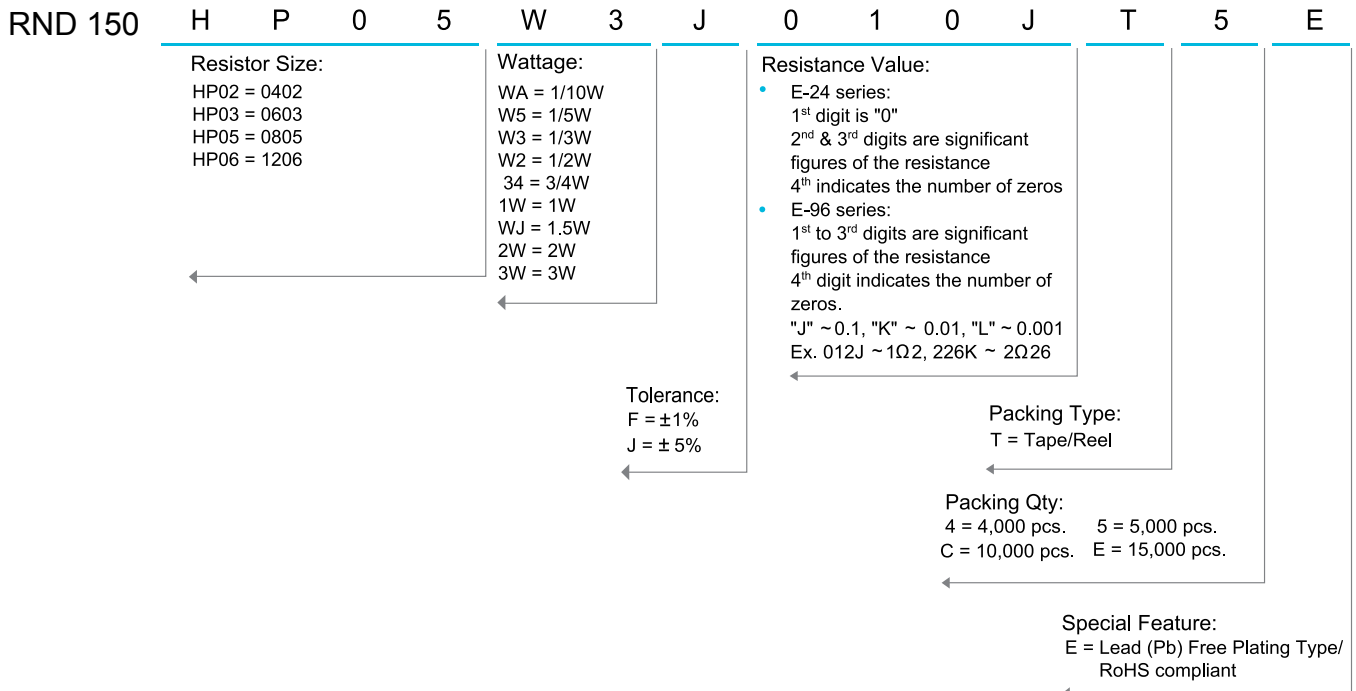


# High Power SMD Resistors



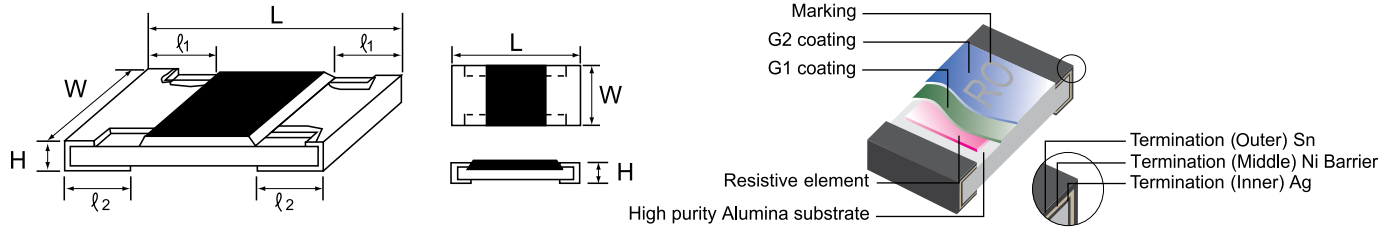
Temperature Coefficient	HP02 :	1Ω ~ 10Ω	± 400PPM/°C
		10.1Ω ~100 Ω	± 200PPM/°C
		>100Ω	± 100PPM/°C
	HP03~ HP12, SP12 :	1Ω ~ 10Ω	≤± 200PPM/°C
		10.1Ω ~ 10MΩ	≤±100PPM/°C
Short Time Overload	±5%:	±(2.0% + 0.1Ω)Max	
	±1%:	±(1.0% + 0.1Ω)Max	
Terminal Bending	±(1.0% + 0.05Ω)Max		
Soldering Heat	±(1.0% + 0.05Ω)Max		
Solderability	Min. 95% coverage.		
Humidity (Steady State)	±5%:	±(3.0% + 0.1Ω)Max	
	±1%:	±(0.5% + 0.1Ω)Max	
Load Life in Humidity	±5%:	±(3.0% + 0.1Ω)Max	
	±1%:	±(1.0% + 0.1Ω)Max	
Load Life	±5%:	±(3.0% + 0.1Ω)Max	
	±1%:	±(1.0% + 0.1Ω)Max	
Temperature Cycling	±5%:	±(1.0% + 0.05Ω)Max	
	±1%:	±(0.5% + 0.05Ω)Max	
Insulation Resistance	Min. 1,000 Mega Ohm		
Dielectric Withstanding Voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown.		



# High Power SMD Resistors



## Dimension



Type	Power Rating at 70°C	Max Working Voltage	Max Overload Voltage	Dielectric Withstanding Voltage	Tol %	Resistance Range	Dimension (mm)				
							L	W	H	l <sub>1</sub>	l <sub>2</sub>
HP02 (0402)	1/10W	50V	100V	100V	±1% ±5%	1Ω ~10MΩ 1Ω ~10MΩ	1.00±0.10	0.50±0.05	0.35±0.05	0.20±0.10	0.25±0.10
HP03 (0603)	1/5W	50V	100V	300V	±1% ±5%	1Ω ~10MΩ 1Ω ~10MΩ	1.60±0.10	0.80 <sup>+0.15</sup> -0.10	0.45±0.10	0.30±0.20	0.30±0.20
HP05 (0805)	1/3W	150V	300V	500V	±1% ±5%	1Ω ~10MΩ 1Ω ~10MΩ	2.00±0.15	1.25 <sup>+0.15</sup> -0.10	0.55±0.10	0.40±0.20	0.40±0.20
HP06 (1206)	1/2W	200V	400V	500V	±1% ±5%	1Ω ~10MΩ 1Ω ~10MΩ	3.10±0.15	1.55 <sup>+0.15</sup> -0.10	0.55±0.10	0.45±0.20	0.45±0.20

### Note:

- Standard Operating Temp (°C): -55 ~+155 2.) Standard : E-96 series : 1% & E-24 series : 5%
- HP12 1Ω ~ 10MΩ Low TCR available case by case on basis.
- HP low resistance range : 0.1Ω ~ 1Ω available,  
TCR for HP03, HP05 at +/-200ppm°C, HP06 ~ HP12 at +/-100ppm°C,  
Electrical performance same as above.