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SPECIFICATIONS

High Voltage Thick Film Chip Resistors

HV-Serie

Version January 2013

High Voltage Thick Film Chip Resistors

Performance Specification

Temperature Coefficient	±200PPM/°C	Humidity (Steady State)	±(3.0% + 0.1Ω)Max
Short Time Overload	±(2.0% + 0.1Ω)Max	Load Life in Humidity	±(3.0% + 0.1Ω)Max
Terminal Bending	±(1.0% + 0.05Ω)Max	Load Life	±(3.0% + 0.1Ω)Max
Solderability	Min. 95% coverage.	Temperature Cycling	±5%: ±(1.0% + 0.05Ω)Max ±1%: ±(0.5% + 0.05Ω)Max

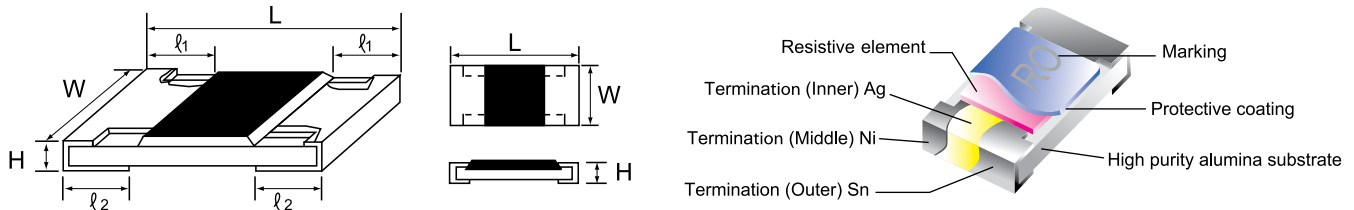
Ordering Procedure: Ex.: HV06, 1/4W-S, +/-5%, 100KΩ T/R-5000

<p>H V 0 6</p> <p>Resistor Size: HV03 = 0603 HV05 = 0805 HV06 = 1206 HV07 = 1210 HV10 = 2010 HV12 = 2512</p> <p>← Wattage: Normal size: WG=1/16W, WA=1/10W, W8=1/8W, W2=1/2W, 1W=1W Small Size: SA=1/10W-S, S8=1/8W-S, S4=1/4W-S 07 = 3/4W-S, S3=1/3W-S Extra Small Size: U2=1/2W-SS</p>	<p>S 4 J</p> <p>Tolerance: F = ±1% J = ±5%</p>	<p>0 1 0 4</p> <p>Resistance Value: • E-24 series: 1st digit is "0" 2nd & 3rd digits are significant figures of the resistance 4th indicates the number of zeros • E-96 series: 1st to 3rd digits are significant figures of the resistance 4th digit indicates the number of zeros. "J" ~ 0.1, "K" ~ 0.01, "L" ~ 0.001 Ex. 012J ~ 1Ω2, 226K ~ 2Ω26</p>	<p>T 5 E</p> <p>Packing Type: T = Tape/Reel</p> <p>Packing Qty: 4 = 4,000 pcs. 5 = 5,000 pcs.</p> <p>Special Feature: E = Lead (Pb) Free Plating Type/ RoHS compliant</p>
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Features

- High maximum working voltage limits
- Suitable for both wave and reflow soldering
- Application: AV adapters, LCD back light, Camera strobe

Dimension



Type	Power Rating at 70°C	Max Working Voltage	Max Overload Voltage	Dielectric Withstanding Voltage	Tolerance %	Resistance Range	Dimension (mm)				
							L	W	H	l ₁	l ₂
HV03 (0603)	1/16W, 1/10W-S	200V	400V	300V	±1% ±5%	100KΩ ~ 10MΩ 100KΩ ~ 10MΩ	1.60±0.10	0.80 ^{+0.15} -0.10	0.45±0.10	0.30±0.20	0.30±0.20
HV05 (0805)	1/10W, 1/8W-S	400V	800V	500V	±1% ±5%	100KΩ ~ 10MΩ 100KΩ ~ 10MΩ	2.00±0.15	1.25 ^{+0.15} -0.10	0.55±0.10	0.40±0.20	0.40±0.20
HV06 (1206)	1/8W, 1/4W-S	500V	1000V	500V	±1% ±5%	100KΩ ~ 10MΩ 100KΩ ~ 10MΩ	3.10±0.15	1.55 ^{+0.15} -0.10	0.55±0.10	0.45±0.20	0.45±0.20
HV07 (1210)	1/3W-S, 1/2W-SS	800V	1500V	500V	±1% ±5%	50KΩ ~ 10MΩ 50KΩ ~ 10MΩ	3.10±0.10	2.60±0.15	0.55±0.10	0.50±0.25	0.50±0.20
HV10 (2010)	1/2W, 3/4W-S	2000V	3000V	500V	±1% ±5%	50KΩ ~ 10MΩ 50KΩ ~ 10MΩ	5.00±0.10	2.50±0.15	0.55±0.10	0.60±0.25	0.50±0.20
HV12 (2512)	1W	3000V	4000V	500V	±1% ±5%	50KΩ ~ 10MΩ 50KΩ ~ 10MΩ	6.35±0.10	3.20±0.15	0.55±0.10	0.60±0.25	0.50±0.20

Note:

- 1.) Standard Operating Temp (°C): -55 ~ +155
- 2.) Standard : E-96 series : 1%
 E-24 series : 5%