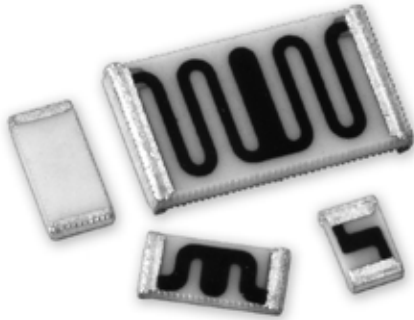


# HVC Series

## Precision High-Value High-voltage Wraparound Chip



HIGH  
VOLTAGE



### FEATURES

- High value chip resistors in thick film technology
- Low temperature and voltage dependency (low TCR and VCR)
- High working voltage up to 3000V
- Suitable for high vacuum applications—no organics
- Contact areas: Nickel-barrier/matte tin
- Wraparound terminals

### SERIES SPECIFICATIONS

Series	Type	Wattage <sup>1</sup> P <sub>70</sub> (mW)	Oper. Voltage (V) std. untrimmed (≥5%)		Resistance Range	Tolerance	TCR <sup>2</sup> (ppm)	VCR <sup>2</sup> (ppm)
HVC0805---	0805	125	200	400	100K-100M	0.5-10%	25, 50, 100	100
					>100M-1G	2-20%	50, 100, 250	250
					>1G-10G	5-20%	250, 500	500
					>10G-100G	10-30%	2000	1000
HVC1206---	1206	250	600	1000	100K-100M	0.5-10%	25, 50, 100	50
					>100M-1G	2-20%	50, 100, 250	100
					>1G-10G	5-20%	100, 250	250
					>10G-100G	10-30%	500, 1000	1000
HVC2512---	2512	1000	2000	3000	100K-100M	0.5-10%	25, 50, 100	10
					>100M-1G	1-20%	25, 50, 100	25
					>1G-10G	2-20%	50, 100	50
					>10G-100G	5-30%	250, 500	100

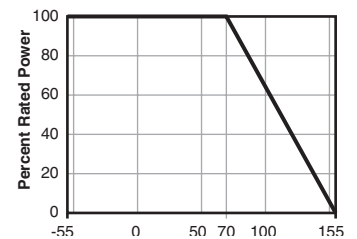
1. At continuous power dissipation the dimensions of the solder pads have to be capable of sufficient heat conduction.

2. Not all TCR/VCR combinations available in all resistance values

### CHARACTERISTICS

<b>Operating temperature range</b>	-55°C ~ +155°C			
<b>Climatic category</b>	55/155/56, acc. to EN 60068-1			
<b>Solderability</b>	250°C, 3s, acc. to EN 60068-2-58			
<b>Max. soldering temperature</b>	260°C, 10s, acc. to IEC 68-2-58			
<b>Long Term Stability</b>		<1G	<10G	≥10G
	Load Life 70°C/1000h	<0.25%	<0.5%	<1%
	Storage 125°C/1000h	<0.5%	<1%	<2%
	Max. Voltage/1000h	<0.5%	<1%	<2%

### Derating



Data not specified according to EN 140401-802 (CECC 40401-802)

### TERMINAL DETAILS

<b>Base Metal</b>	PtAg
<b>Termination Finish</b>	100% electroplated matte Sn100
<b>Thickness of Finish</b>	5 microns
<b>Barrier Material between Base Metal and Finish</b>	Porosity-free Ni (5-8 microns thickness)
<b>Baking/Annealing Process after Sn Plating</b>	150°C; > 4 hours
<b>Peak Process Body Temperature (Classification Temperature) and Maximum Time</b>	260°C for 10 seconds

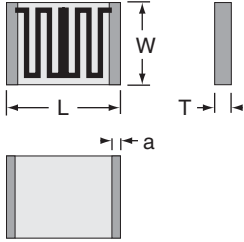
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## Precision High-Value High-voltage Wraparound Chip

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VOLTAGE

### DIMENSIONS

(mm)



Size	Power Rating (mW)	L	W	T	a
0805	125	2.00 +.15/-.05	1.25 +.15/-.05	0.40 +.15/-.05	0.3 +.2/-.1
1206	250	3.20 +.15/-.05	1.50 +.2/-.05	0.40 +.15/-.05	0.3 +.2/-.1
2512	1000	6.30 +.15/-.05	3.50 +.2/-.05	0.60 +.15/-.05	0.9 ±.2

### HOW TO ORDER

RoHS Compliant					
<b>H</b>	<b>V</b>	<b>C</b>	<b>1</b>	<b>2</b>	<b>0</b>
<b>6</b>	<b>T</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>4</b>
<b>J</b>	<b>E</b>	<b>T</b>			
<b>Series</b>	<b>Package Size</b>	(ppm)	<b>TCR</b>	<b>Ohms</b>	<b>Tolerance</b>
High Voltage Wrap Around Chip		W = 25 V = 50 T = 100 Z = 250 E = 500 N = 1000 U = 2000		1004 = 1MΩ 5006 = 500MΩ	D = 0.50% F = 1% G = 2% J = 5% K = 10% M = 20% P = 30%
					<b>Tape &amp; Reel</b>
					500 pc/reel

### Standard Part Numbers

HVC0805T1004JET	HVC1206T1004JET	HVC2512T1004JET
HVC0805T5004JET	HVC1206T5004JET	HVC2512T5004JET
HVC0805T1005JET	HVC1206T1005JET	HVC2512T1005JET
HVC0805T5005JET	HVC1206T5005JET	HVC2512T5005JET
HVC0805T1006JET	HVC1206T1006JET	HVC2512T1006JET
HVC0805Z5006JET	HVC1206Z5006JET	HVC2512Z5006JET
HVC0805Z1007JET	HVC1206Z1007JET	HVC2512Z1007JET
HVC0805Z1008KET	HVC1206Z1008KET	