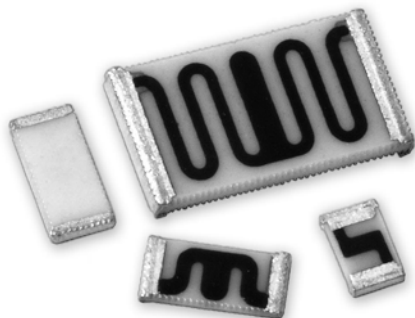


HVC Series

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 ¹ P ₇₀ (mW)	Oper. Voltage (V) std. untrimmed (≥5%)	Resistance Range	Tolerance	TCR ² (ppm)	VCR ² (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%	1000, 2000	2000
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%	50, 100, 250	250
				>10G-100G	10-30%	250, 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%	25, 50, 100	50
				>10G-100G	5-30%	100, 250, 500	100

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

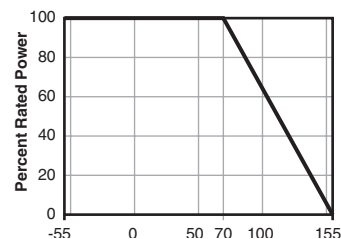
2. Not all TCR/VCR combinations available in all resistance values

3. HVC2512 10M-10G: Also available TCR15, TCR10

CHARACTERISTICS

Operating temperature range	-55°C ~ +155°C			
Climatic category	55/155/56, acc. to EN 60068-1			
Solderability	250°C, 3s, acc. to EN 60068-2-58			
Max. soldering temperature	260°C, 10s, acc. to IEC 68-2-58			
Long Term Stability		<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

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

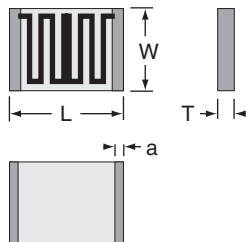
HVC Series

Precision High-Value High-voltage Wraparound Chip

HIGH
VOLTAGE

DIMENSIONS

(mm)



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

HOW TO ORDER

RoHS Compliant

Series	Package Size	(ppm)	TCR	Ohms	Tolerance	Tape & Reel
HVC	1206	W = 25	T = 100	1004 = 1M Ω	D = 0.50%	500 pc/reel
High Voltage		V = 50	Z = 250	5006 = 500M Ω	F = 1%	
Wrap Around Chip		T = 100	E = 500		G = 2%	
		N = 1000			J = 5%	
		U = 2000			K = 10%	
					M = 20%	
					P = 30%	

Standard Part Numbers

HVC0805T1004JET	HVC1206T1004JET	HVC2512T1004JET
HVC0805T5004JET	HVC1206T5004JET	HVC2512T5004JET
HVC0805T1005JET	HVC1206T1005JET	HVC2512T1005JET
HVC0805T5005JET	HVC1206T5005JET	HVC2512T5005JET
HVC0805T1006JET	HVC1206T1006JET	HVC2512T1006JET
HVC0805Z5006JET	HVC1206Z5006JET	HVC2512T5006JET
HVC0805Z1007JET	HVC1206Z1007JET	HVC2512T1007JET
HVC0805E1008KET	HVC1206Z1008KET	HVC2512T1008KET