



THE DATASHEET OF HVS2512-10MJ1

HVS Series

High Voltage / High Temperature
Thick Film Chip Resistors



- Resistances from 100k to 10T Ohms
- Power Rating 0.125 to 1.5 Watt
- Resistance Tolerances to $\pm 0.25\%$
- TCR to ± 25 ppm/ $^{\circ}\text{C}$
- Non-Magnetic (contact PtAg)
- High Value Thick Film Resistance Element
- Sizes: 0805 / 1206 / 1210 / 2010 / 2512 / 4020
- Special HT Version to 300 $^{\circ}\text{C}$

SPECIFICATIONS

Type		0805 ⁴	1206	1210	2010	2512	4020
Power Rating - P ₇₀ (W @ 70 $^{\circ}\text{C}$)		0.125	0.25	0.35	0.5	1.0	1.5
Working Voltage (VAC)	Trimmed	200	600	800	1500	2000	4000
	Untrimmed ($\geq 5\%$)	400	1000	1200	2000	3000	6000
Resistance Range (Ω)		Tolerances Available (%) Temperature Coefficients Available ($\pm$ ppm/ $^{\circ}\text{C}$) Voltage Coefficients Available (ppm / V)					
100k - 100M		0.5% to 10% 25 / 50 / 100 100ppm/V	0.5% to 10% 25 / 50 / 100 50ppm/V	0.5% to 10% 25 / 50 / 100 50ppm/V	0.5% to 10% 25 / 50 / 100 25ppm/V	0.5% to 10% 25 / 50 / 100 10ppm/V	0.25% to 10% 25 / 50 / 100 5ppm/V
>100M - 1G		2% to 20% 50 / 100 / 250 250ppm/V	2% to 20% 50 / 100 / 250 100ppm/V	1% to 20% 25 / 50 / 100 50ppm/V	1% to 20% 25 / 50 / 100 50ppm/V	1% to 20% 25 / 50 / 100 25ppm/V	0.5% to 20% 25 / 50 / 100 10ppm/V
>1G - 10G		5% to 20% 250 / 500 500ppm/V	5% to 20% 50 / 100 / 250 250ppm/V	2% to 20% 25 / 50 / 100 100ppm/V	2% to 20% 25 / 50 / 100 100ppm/V	2% to 20% 25 / 50 / 100 50ppm/V	1% to 20% 25 / 50 / 100 10ppm/V
>10G - 100G		10% to 30% 2000 2000ppm/V	10% to 30% 250 / 500 / 1000 1000ppm/V	5% to 30% 250 / 500 / 1000 500ppm/V	5% to 30% 100 / 250 / 500 500ppm/V	5% to 30% 100 / 250 / 500 100ppm/V	2% to 30% 100 / 250 / 500 50ppm/V
>100G - 1T		20% to 30% 2000 5000ppm/V	10% to 30% 1000 / 2000 2000ppm/V	5% to 30% 1000 / 2000 1000ppm/V	5% to 30% 500 / 1000 1000ppm/V	5% to 30% 250 / 500 500ppm/V	5% to 30% 250 / 500 250ppm/V
>1T - 10T		-	20% to 30% TCR / VCR on request	20% to 30% TCR / VCR on request	20% to 30% TCR / VCR on request	10% to 30% TCR / VCR on request	10% to 30% TCR / VCR on request

1) Solder pads must have sufficient heat conduction

2) TCR in ppm/K; +25 $^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$; TCR below standard TCR (highest value) and values >100G; +25 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$

3) VCR: typical values, all negative, not for all TCR values available

4) Best tolerance for High Temp version is 2%

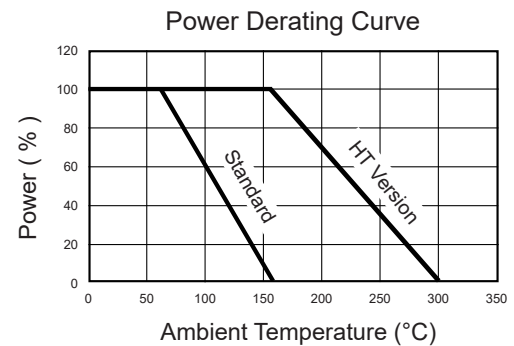
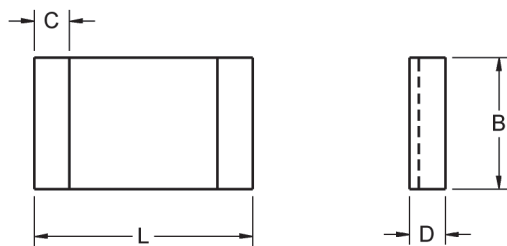
HVS Series

High Voltage / High Temperature
Thick Film Chip Resistors



SPECIFICATIONS

Temperature Range	-55°C to +155°C (Standard) -55°C to +300°C (HT Version, TCR valid +25°C to +125°C)		
Climactic Category	55 / 155 / 56		
Solderability	250°C / 3s (up to 6 month after shipment resp. at storage in Nitrogen)		
Max. Soldering Temperature	260°C / 10s		
Long Term Stability	Max ΔR		
	<1 G Ω	1 G Ω - 10 G Ω	>10 G Ω
Load Life 70°C / 1000h / P ₇₀	±0.25%	±0.5%	±1%
Storage 125°C / 1000h	±0.5%	±1%	±2%
Maximum Voltage / 1000h	±0.5%	±1%	±2%



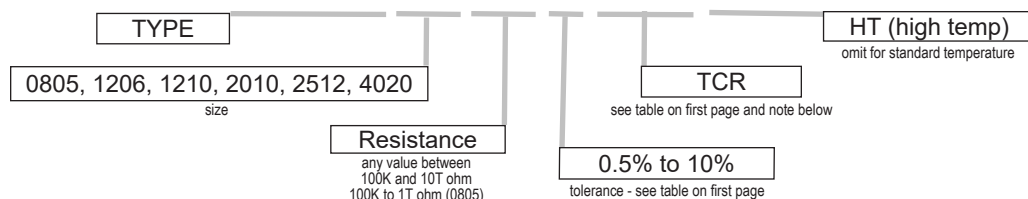
Packaging: Bulk or Tape & Reel per IEC 286-3 / EIA 481-1-A
Tape width 8mm / Reel Diameter 180 or 330mm

DIMENSIONS in [mm]

Type	L	B	D	C
HVS 0805	0.080 +0.006 / -0.002 [2.0 +0.15 / -0.05]	0.050 +0.006 / -0.002 [1.25 +0.15 / -0.05]	0.016 +0.006 / -0.002 [0.4 +0.15 / -0.05]	0.012 +0.008 / -0.004 [0.3 +0.2 / -0.1]
HVS 1206	0.126 +0.006 / -0.002 [3.2 +0.15 / -0.05]	0.060 +0.008 / -0.002 [1.5 +0.2 / -0.05]	0.016 +0.006 / -0.002 [0.4 +0.15 / -0.05]	0.012 +0.008 / -0.004 [0.3 +0.2 / -0.1]
HVS 1210	0.126 +0.006 / -0.002 [3.2 +0.15 / -0.05]	0.098 +0.008 / -0.002 [2.5 +0.2 / -0.05]	0.020 +0.006 / -0.002 [0.5 +0.15 / -0.05]	0.032 ±0.008 [0.8 ±0.2]
HVS 2010	0.20 +0.008 / -0.002 [5.1 +0.2 / -0.05]	0.098 +0.008 / -0.002 [2.5 +0.2 / -0.05]	0.024 +0.006 / -0.002 [0.6 +0.15 / -0.05]	0.05 ±0.008 [1.2 ±0.2]
HVS 2512	0.250 +0.006 / -0.002 [6.3 +0.15 / -0.05]	0.138 +0.008 / -0.002 [3.5 +0.2 / -0.05]	0.024 +0.006 / -0.002 [0.6 +0.15 / -0.05]	0.035 ±0.008 [0.9 ±0.2]
HVS 4020	0.40 +0.006 / -0.002 [10.20 +0.15 / -0.05]	0.20 +0.008 / -0.002 [5.1 +0.2 / -0.05]	0.024 +0.006 / -0.002 [0.6 +0.15 / -0.05]	0.035 ±0.008 [0.9 ±0.2]

ORDERING INFORMATION

HVS0805 10M 1% 50PPM HT



100 piece minimum per value for bulk packaging or 500 pieces per value for Tape & Reel | If no TCR is specified, the highest value will be supplied

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