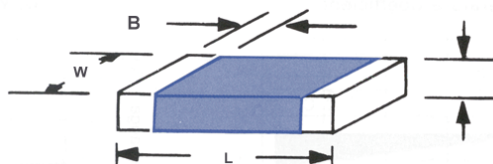


HV1 Series - Chip Ceramic Capacitors

Y5V Dielectric

HV1 Series: The HV1 Series Y5V is general purpose Class II dielectric with higher dielectric constant and greater variation of properties with temperature and test conditions. Very high capacitance per unit volume is attainable for general purpose applications.

The Z5U, Y5V dielectrics deliver high capacitance density and are ideally suited for applications where space is at a premium, or as a replacement for tantalum capacitors. Typical applications include use as by-pass or decoupling elements. Best performance is obtained at or near room temperature, with low D.C. bias (<25 VDCW).



Case Size	Dimensions (mm/in)			Voltage					
	L	W	T	10V	16V	25V	50V		
0402	1.0±0.1 (0.039±0.004)	0.5±0.1 (0.020±0.004)	0.6 max. (0.024 max.)	2200pF 0.1µF	2200pF 0.1µF	2200pF .022µF	2200pF 0.01µF	Min. Max.	Capacitance Range
0603	1.6±0.15 (0.063±0.006)	0.8±0.15 (0.031±0.006)	0.9 max. (0.035 max.)	2200pF 1.0µF	2200pF .33µF	2200pF .22µF	2200pF .056µF	Min. Max.	
0805	2.0±0.2 (0.079±0.008)	1.25±0.2 (0.049±0.008)	1.3 max. (0.051 max.)	.01pF 4.7µF	.01µF 2.2µF	.01µF 1.0µF	.01µF .33µF	Min. Max.	
1206	3.2±0.2 (0.126±0.008)	1.6±0.2 (0.063±0.008)	1.5 max. (0.059 max.)	.01µF 10.0µF	.01µF 4.7µF	.01µF 2.2µF	.01µF 1.0µF	Min. Max.	
1210	3.2±0.2 (0.126±0.008)	2.5±0.2 (0.098±0.008)	1.7 max. (0.067 max.)	0.1µF 22µF	0.1µF 10µF	0.1µF 4.7µF	0.1µF 1.0µF	Min. Max.	
1812	4.5±0.3 (0.177±0.012)	3.2±0.2 (0.126±0.008)	1.7 max. (0.067 max.)	-	-	.15µF 1.5µF	.15µF 1.5µF	Min. Max.	
1825	4.5±0.3 (0.177±0.012)	6.4±0.4 (0.252±0.016)	1.7 max. (0.067 max.)	-	-	.47µF 1.5µF	.47µF 1.0µF	Min. Max.	

HOW TO ORDER

 HV1 V 0805 102 M 201 N T
 Series Dielectric Size Code Capacitance Tolerance Voltage Terminator Packaging

2 significant digits
 + multiplier

Please refer to corresponding charts

Capacitance Codes	
9.1pF	9R1
10pF	100
100pF	101
1,000pF	102
22,000pF	223
220,000pF	224
1µF	105

Rated Voltage Codes	
10V	100
16V	160
25V	250
50V	500
100V	101
200V	201

Tolerance Codes	
K	± 10%
M	± 20%
Z	-20 +80%

Termination	
S	AgPd
N	Nickel Barrier
C	Cu/n

Packaging		
Size	Reel	Bulk
0402	10,000	50,000
0603	4,000	12,000
0805	4,000	12,000
1206	4,000	12,000
1210	4,000	12,000
1812	1,500	3,000
1825	1,000	3,000