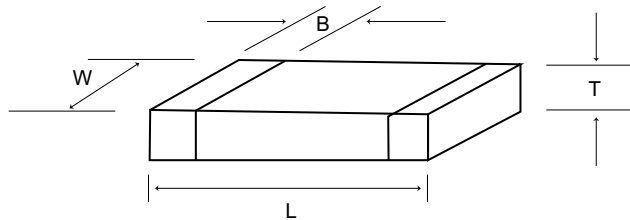


HV1 Series - Chip Ceramic Capacitors

X5R Dielectric



HV1 Series: The HV1 Series X5R is a stable Class II dielectric with predictable change in properties with time, voltage and frequency. Used for DC blockage, filtering, coupling, bypass, frequency discriminating and as voltage suppression elements. Designed for surface mount application. Also, available with silver-palladium terminations for hybrid use with conductive epoxy. This dielectric is ferroelectric and offers higher capacitance than Class I.



Case Size	Dimensions (mm/in)			Voltage					Min. Max.	Capacitance Range
	L	W	T	6.3V	10V	16V	50V			
0402	1.0±0.1 (0.039±0.004)	0.5±0.1 (0.020±0.004)	0.50±0.05	0.1µF 0.22µF	.047µF .1µF	-	-			Min. Max.
0603	1.6±0.15 (0.063±0.006)	0.8±0.15 (0.031±0.006)	0.80±0.12	1.0µF 2.2µF	.33µF .68µF	-	-			Min. Max.
0805	2.0±0.2 (0.079±0.008)	1.25±0.2 (0.049±0.008)	1.50±0.20	2.2µF 10µF	1.0µF 4.7µF	.33µF 1.0µF	-			Min. Max.
1206	3.2±0.2 (0.126±0.008)	1.6±0.2 (0.063±0.008)	2.00±0.20	10µF	3.3µF 10µF	2.2µF 4.7µF	-			Min. Max.
1210	3.2±0.2 (0.126±0.008)	2.5±0.2 (0.098±0.008)	2.50±0.20	22µF 47µF	22µF	4.7µF 6.8µF	2.2µF 3.3µF			Min. Max.
1812	4.5±0.3 (0.177±0.012)	3.2±0.2 (0.126±0.008)	3.00±0.20	47µF 100µF	-	22µF	-			Min. Max.
2220	5.72±0.4 (0.225±0.016)	5.0±0.4 (0.197±0.016)	3.00±0.20	100µF	-	47µF	10µF			Min. Max.

HOW TO ORDER

 HV1 X 0805 105 M 100 N T
 Series Dielectric Size Code Capacitance Tolerance Voltage Termination Packaging
(2 significant digits + multiplier)

Please refer to corresponding charts

Capacitance Codes	
47,000pF	473
470,000pF	474
1µF	105
10µF	106
100µF	107

Rated Voltage Codes	
6.3V	6R3
10V	100
16V	160
25V	250
50V	500

Tolerance Codes	
J	± 5%
K	± 10%
M	± 20%

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
2220	1,000	3,000