



### Part Number & Ordering Information

<b>HV2520</b>	<b>B</b>	<b>183</b>	<b>K</b>	<b>202</b>	<b>N</b>	<b>M</b>	<b>C</b>	<b>C</b>	<b>R</b>
<b>Style</b> HV Size (See table)	<b>Dielectric</b> B=X7R N=NPO	<b>Capacitance Value in pF</b> First two digits are significant, the last is the number of zeros, i.e. 183=18,000pF	<b>Tolerance</b> J=±5% (NPO Only) K=±10% M=±20% P=-0%/+100% Z=-20%/+80%	<b>Voltage</b> 202=2,000 etc. 103=10,000 etc.	<b>Termination Type</b> P=Pd/Ag S=Ag N=Ni w/100% Sn Plate (7030 Size & below) Y= Ni w/ Sn-Pb Plate (7030 size & below)	<b>Screening</b> Group A (Except Corona)	<b>Partial Discharge Corona Testing</b>	<b>Ultrasound</b> S=SLAM C=C-SAM	<b>ROHS Compliant</b>

### General Information

- Ceramic Chip Capacitors are designed for High Voltage performance and reliability with conservative designs
- Mil-Prf-49467 types for voltage coefficient, BR, BZ, and BP available upon request
- Group A and B screening to Mil-Prf-49467 available upon request (except Corona)
- SLAM or C-SAM available, see part number ordering information
- Partial Discharge testing per Mil-Prf-49467 available, see part number ordering information
- Variety of Terminations available, see part number ordering information
- ROHS available, see part number ordering information
- Chip Capacitors are sensitive to thermal shock during soldering and care should be taken to avoid damage. Refer to our technical bulletin TB100 on our website or contact factory for guidance
- No Marking on part unless specified

SPECIFICATIONS	DIELECTRIC TYPE (EIA DESIGNATION)	
	NPO	X7R
TEMPERATURE RANGE	-55°C to 125°C	-55°C to 125°C
TEMPERATURE COEFFICIENT	± 30 ppm/°C	±15%
VOLTAGE RANGE	500V to 10,000V	500V to 10,000V
IR @ 25°C	100,000MΩ or 1,000MΩ - μF whichever is less	100,000MΩ or 1,000MΩ - μF whichever is less
IR @ 125°C	10,000MΩ or 100MΩ - μF whichever is less	10,000MΩ or 100MΩ - μF whichever is less
DISSIPATION FACTOR @ 1kHz, 25 °C	0.1% max	2.5% max
AGING RATE	0	-2% max/decade hour

## High Voltage Commercial and Military Quality Multi-Layer Ceramic Chip Capacitors

STYLE	SIZE			
	LENGTH INCHES [MM]	WIDTH INCHES [MM]	THICKNESS INCHES [MM]	ELECTRODE BAND (E.B) INCHES
HV1515	.150 ± .015 [3.81 ± .18]	.150 ± .015 [3.81 ± .38]	.140 [3.55]	.010 - .030
HV1812	.180 ± .020 [4.57 ± .51]	.120 ± .015 [3.05 ± .18]	.100 [2.54]	.010 - .040
HV1825	.180 ± .020 [4.57 ± .51]	.250 ± .020 [6.35 ± .51]	.160 [4.07]	.010 - .040
HV2020	.200 ± .020 [5.08 ± .51]	.200 ± .020 [5.08 ± .51]	.180 [3.55]	.010 - .040
HV2225	.220 ± .020 [5.59 ± .51]	.250 ± .020 [6.35 ± .51]	.200 [5.08]	.010 - .040
HV2520	.250 ± .020 [6.35 ± .51]	.200 ± .020 [5.08 ± .51]	.180 [4.57]	.020 - .060
HV3333	.330 ± .030 [8.38 ± .76]	.330 ± .030 [8.38 ± .76]	.220 [5.59]	.020 - .060
HV3530	.350 ± .030 [8.89 ± .76]	.300 ± .030 [7.62 ± .76]	.220 [5.59]	.020 - .060
HV4040	.400 ± .030 [10.2 ± .76]	.400 ± .030 [10.2 ± .76]	.220 [5.59]	.020 - .060
HV4540	.450 ± .030 [11.43 ± .76]	.400 ± .030 [10.2 ± .76]	.220 [5.59]	.020 - .060
HV5440	.540 ± .030 [13.7 ± .76]	.400 ± .030 [10.2 ± .76]	.220 [5.59]	.020 - .060
HV5550	.550 ± .030 [14.0 ± .76]	.500 ± .030 [12.7 ± .76]	.220 [5.59]	.020 - .060
HV6560	.650 ± .030 [16.5 ± .76]	.600 ± .030 [15.2 ± .76]	.220 [5.59]	.020 - .060
HV7030	.700 ± .030 [17.8 ± .76]	.300 ± .030 [7.62 ± .76]	.220 [5.59]	.020 - .060
HV9040	.900 ± .030 [22.9 ± .76]	.400 ± .030 [10.2 ± .76]	.220 [5.59]	.020 - .060
HV11050	1.100 ± .030 [27.9 ± .76]	.500 ± .030 [12.7 ± .76]	.220 [5.59]	.020 - .060
HV13060	1.300 ± .030 [33.02 ± .76]	.600 ± .030 [15.2 ± .76]	.220 [5.59]	.020 - .060

### X7R DIELECTRIC CAPACITANCE RANGES

STYLE	500 VDC		1 KVDC		2 KVDC		3 KVDC		4 KVDC		5 KVDC		7 KVDC		10 KVDC	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
HV1515	680 pF	.082 μF	680 pF	.022 μF	270 pF	3900 pF	-	-	-	-	-	-	-	-	-	-
HV1812	680 pF	.056 μF	680 pF	.018 μF	270 pF	2500 pF	-	-	-	-	-	-	-	-	-	-
HV1825	1200 pF	.018 μF	1200 pF	.047 μF	560 pF	8200 pF	560 pF	2700 pF	-	-	-	-	-	-	-	-
HV2020	1200 pF	.180 μF	1200 pF	.068 μF	560 pF	.012 μF	560 pF	3900 pF	-	-	-	-	-	-	-	-
HV2225	1200 pF	.220 μF	1200 pF	.068 μF	680 pF	.015 μF	680 pF	4700 pF	-	-	-	-	-	-	-	-
HV2520	1200 pF	.220 μF	1200 pF	.082 μF	680 pF	.018 μF	680 pF	5600 pF	-	-	-	-	-	-	-	-
HV3333	3300 pF	.470 μF	3300 pF	.250 μF	1200 pF	.033 μF	1200 pF	.012 μF	-	-	-	-	-	-	-	-
HV3530	3300 pF	.560 μF	3300 pF	.270 μF	1200 pF	.033 μF	1200 pF	.015 μF	270 pF	6800 pF	-	-	-	-	-	-
HV4040	6800 pF	.860 μF	6800 pF	.390 μF	2700 pF	.047 μF	2700 pF	.018 μF	-	-	-	-	-	-	-	-
HV4540	6800 pF	1.20 μF	6800 pF	.470 μF	2700 pF	.068 μF	2700 pF	.033 μF	470 pF	.010 μF	470 pF	6800 pF	-	-	-	-
HV5440	.010 μF	1.50 μF	.010 μF	.680 μF	3900 pF	.056 μF	3900 pF	.012 μF	680 pF	.010 μF	-	-	-	-	-	-
HV5550	.010 μF	1.80 μF	.010 μF	.680 μF	3900 pF	.100 μF	3900 pF	.039 μF	680 pF	.015 μF	680 pF	.010 μF	-	-	-	-
HV6560	.015 μF	2.50 μF	.015 μF	1.00 μF	6800 pF	.180 μF	6800 pF	.082 μF	1200 pF	.027 μF	1200 pF	.015 μF	-	-	-	-
HV7030	.010 μF	1.50 μF	.010 μF	.680 μF	1800 pF	.082 μF	1800 pF	.027 μF	680 pF	.012 μF	6800 pF	8200 pF	220 pF	3300 pF	-	-
HV9040	.012 μF	2.20 μF	.012 μF	1.00 μF	3300 pF	.150 μF	3300 pF	.056 μF	1200 pF	.027 μF	1200 pF	.022 μF	470 pF	6800 pF	470 pF	3900 pF
HV11050	.018 μF	3.90 μF	.018 μF	1.50 μF	5600 pF	.250 μF	5600 pF	.082 μF	2200 pF	.047 μF	2200 pF	.027 μF	820 pF	.010 μF	820 pF	5600 pF
HV13060	.027 μF	5.60 μF	.027 μF	2.20 μF	8200 pF	.330 μF	8200 pF	.120 μF	3300 pF	.068 μF	3300 pF	.039 μF	1200 pF	.039 μF	1200 pF	.010 μF

### NPO DIELECTRIC CAPACITANCE RANGES

STYLE	500 VDC		1 KVDC		2 KVDC		3 KVDC		4 KVDC		5 KVDC		7 KVDC		10 KVDC	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
HV1515	27 pF	4700 pF	27 pF	1500 pF	12 pF	270 pF	12 pF	150 pF	-	-	-	-	-	-	-	-
HV1812	27 pF	2700 pF	27 pF	1200 pF	12 pF	270 pF	12 pF	120 pF	-	-	-	-	-	-	-	-
HV1825	39 pF	8200 pF	39 pF	3900 pF	22 pF	820 pF	22 pF	560 pF	-	-	-	-	-	-	-	-
HV2020	39 pF	8200 pF	39 pF	3900 pF	22 pF	820 pF	22 pF	560 pF	-	-	-	-	-	-	-	-
HV2225	47 pF	.012 μF	47 pF	8200 pF	27 pF	1000 pF	27 pF	680 pF	-	-	-	-	-	-	-	-
HV2520	47 pF	.010 μF	47 pF	6800 pF	27 pF	1000 pF	27 pF	680 pF	-	-	-	-	-	-	-	-
HV3333	120 pF	.015 μF	120 pF	.012 μF	47 pF	5600 pF	47 pF	1200 pF	27 pF	680 pF	-	-	-	-	-	-
HV3530	120 pF	.022 μF	120 pF	.018 μF	47 pF	1000 pF	47 pF	1500 pF	27 pF	680 pF	-	-	-	-	-	-
HV4040	220 pF	.039 μF	220 pF	.022 μF	100 pF	3900 pF	100 pF	2200 pF	18 pF	1200 pF	-	-	-	-	-	-
HV4540	220 pF	.056 μF	220 pF	.033 μF	100 pF	4700 pF	100 pF	3900 pF	18 pF	1500 pF	18 pF	1000 pF	-	-	-	-
HV5440	390 pF	.082 μF	390 pF	.033 μF	150 pF	5600 pF	150 pF	3300 pF	27 pF	2200 pF	-	-	-	-	-	-
HV5550	390 pF	.082 μF	390 pF	.047 μF	150 pF	6800 pF	150 pF	6800 pF	27 pF	2200 pF	27 pF	2200 pF	-	-	-	-
HV6560	470 pF	.100 μF	470 pF	.068 μF	270 pF	.010 μF	270 pF	8200 pF	47 pF	3900 pF	47 pF	2700 pF	-	-	-	-
HV7030	330 pF	.120 μF	330 pF	.068 μF	68 pF	5600 pF	68 pF	4700 pF	27 pF	1500 pF	27 pF	1200 pF	12 pF	470 pF	-	-
HV9040	470 pF	.150 μF	470 pF	.056 μF	120 pF	.010 μF	120 pF	5600 pF	47 pF	3300 pF	47 pF	2000 pF	18 pF	1000 pF	18 pF	820 pF
HV11050	680 pF	.220 μF	680 pF	.100 μF	220 pF	.022 μF	220 pF	.015 μF	82 pF	5600 pF	82 pF	3900 pF	33 pF	1800 pF	33 pF	1200 pF
HV13060	1000 pF	.330 μF	1000 pF	.150 μF	270 pF	.039 μF	270 pF	.018 μF	120 pF	8200 pF	120 pF	5600 pF	56 pF	2700 pF	56 pF	2200 pF

**Custom voltages, sizes, and capacitance values are available. Contact Factory.**