

HIGH VOLTAGE CERAMIC CAPACITORS

For use in high reliability high voltage applications, Presidio recommends its high voltage capacitors. Available screened to the requirements of MIL-PRF-49467, the high voltage parts may require encapsulation to prevent surface breakdown.

SIZE	L inches (mm)	W inches (mm)	THICKNESS MAX (T) inches (mm)	METALIZATION BAND inches (mm)	WVDC	DIELECTRIC	
						NPO	X7R
1209	0.125 (3.18) ± 0.010 (0.25)	0.095 (2.41) ± 0.010 (0.25)	0.080 (2.03)	0.020 (0.51) ± 0.010 (0.25)	500 V	2700 pF	0.022 µF
					1000 V	390 pF	1800 pF
1514	0.150 (3.81) ± 0.010 (0.25)	0.140 (3.56) ± 0.010 (0.25)	0.140 (3.56)	0.020 (0.51) ± 0.010 (0.25)	500 V	3900 pF	0.039 µF
					1000 V	1800 pF	0.01 µF
					2000 V	390 pF	1800 pF
					3000 V	150 pF	820 pF
1712	0.175 (4.46) ± 0.015 (0.38)	0.125 (3.18) ± 0.010 (0.25)	0.120 (3.05)	0.020 (0.51) ± 0.010 (0.25)	500 V	6800 pF	0.068 µF
					1000 V	2200 pF	0.015 µF
					2000 V	270 pF	1800 pF
					3000 V	120 pF	390 pF
1812	0.180 (4.57) ± 0.020 (0.51)	0.125 (3.18) ± 0.010 (0.25)	0.120 (3.05)	0.020 (0.51) ± 0.010 (0.25)	500 V	6800 pF	0.068 µF
					1000 V	2200 pF	0.015 µF
					2000 V	270 pF	1800 pF
					3000 V	120 pF	390 pF
1825	0.180 (4.57) ± 0.020 (0.51)	0.250 (6.35) max.	0.160 (4.06)	0.020 (0.51) ± 0.010 (0.25)	500 V	0.012 µF	0.15 µF
					1000 V	5600 pF	0.027 µF
					2000 V	1000 pF	6800 pF
					3000 V	470 pF	1800 pF
1918	0.190 (4.83) ± 0.013 (0.33)	0.180 (4.57) ± 0.013 (0.33)	0.150 (3.81)	0.020 (0.51) ± 0.010 (0.25)	500 V	8200 pF	0.082 µF
					1000 V	3900 pF	0.022 µF
					2000 V	820 pF	4700 pF
					3000 V	330 pF	1800 pF
2225	0.230 (5.84) ± 0.020 (0.51)	0.250 (6.35) ± 0.018 (0.46)	0.200 (5.08)	0.020 (0.51) ± 0.010 (0.25)	500 V	0.015 µF	0.39 µF
					1000 V	6800 pF	0.068 µF
					2000 V	1500 pF	0.012 µF
					3000 V	560 pF	3900 pF

HOW TO ORDER HIGH VOLTAGE CAPACITORS (See p. 3, Example: HR1825X7R102K11P1R)

HR	1825	X7R	102	K	11	P	1	R
Prefix HR, CR, SR Leave blank for Industrial	Case Size	Dielectric Code	Capacitance Code 1000 pF	Tolerance Code ± 10%	Voltage Code 2000 V	Termination Code PdAg	Marking & Packaging Reel, unmarked	Blank = Non-RoHS R = RoHS Compliant

If you are looking for High Voltage Radial Leaded QPL part numbers per MIL-PRF-49467, please consult our High Voltage Ceramic Capacitors Catalog.

For non QPL case sizes and voltages for Radial Leaded Ceramic Capacitors, we offer the following Hi-Rel Space screening:

- HR#49467A Series — Screening and testing similar to MIL-PRF-49467 Group A only
- HR#49467AB Series — Screening and testing similar to MIL-PRF-49467 Group A and Group B
- Data Package included with the parts



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HIGH VOLTAGE CERAMIC CAPACITORS (continued)

For case sizes larger than 2225 we recommend adding a lead frame to the chip to better absorb any thermo-mechanical stress. Radial Lead, Surface Mount or Through Hole styles are available.

SIZE	L inches (mm)	W inches (mm)	THICKNESS MAX inches (mm)	METALIZATION BAND inches (mm)	DIELECTRIC		
					WVDC	NPO	X7R
2720	0.270 (6.85) ± 0.020 (0.51)	0.230 (5.84) max.	0.200 (5.08)	0.020 (0.51) ± 0.010 (0.25)	500 V	0.012 µF	0.1 µF
					1000 V	5600 pF	0.027 µF
					2000 V	1500 pF	6800 pF
					3000 V	560 pF	3300 pF
2824	0.280 (7.11) ± 0.020 (0.51)	0.250 (6.35) max.	0.150 (3.81)	0.020 (0.51) ± 0.010 (0.25)	500 V	0.022 µF	0.22 µF
					1000 V	8200 pF	0.047 µF
					2000 V	1800 pF	0.01 µF
					3000 V	820 pF	3300 pF
3012	0.300 (7.62) ± 0.020 (0.51)	0.150 (3.81) max.	0.150 (3.81)	0.020 (0.51) ± 0.010 (0.25)	500 V	0.012 µF	0.082 µF
					1000 V	5600 pF	0.018 µF
					2000 V	560 pF	3300 pF
					3000 V	390 pF	1200 pF
3728	0.370 (9.40) ± 0.020 (0.51)	0.330 (8.38) max.	0.220 (5.59)	0.020 (0.51) ± 0.010 (0.25)	500 V	0.033 µF	0.27 µF
					1000 V	0.018 µF	0.082 µF
					2000 V	2700 pF	0.015 µF
					3000 V	1800 pF	5600 pF
3933	0.380 (9.65) ± 0.020 (0.51)	0.350 (8.89) max.	0.150 (3.81)	0.020 (0.51) ± 0.010 (0.25)	500 V	0.047 µF	0.47 µF
					1000 V	0.018 µF	0.1 µF
					2000 V	3900 pF	0.022 µF
					3000 V	1800 pF	8200 pF
4018	0.400 (10.16) ± 0.020 (0.51)	0.210 (5.33) max.	0.200 (5.08)	0.020 (0.51) ± 0.010 (0.25)	4000 V	1000 pF	3900 pF
					500 V	0.022 µF	0.15 µF
					1000 V	0.012 µF	0.047 µF
					2000 V	1200 pF	0.01 µF
4040	0.400 (10.16) ± 0.028 (0.71)	0.400 (10.16) ± 0.028 (0.71)	0.150 (3.81)	0.020 (0.51) ± 0.010 (0.25)	3000 V	820 pF	3900 pF
					4000 V	560 pF	2200 pF
					500 V	0.047 µF	0.47 µF
					1000 V	0.022 µF	0.12 µF
4540	0.450 (11.43) ± 0.032 (0.81)	0.400 (10.16) ± 0.028 (0.71)	0.150 (3.81)	0.020 (0.51) ± 0.010 (0.25)	2000 V	2200 pF	0.027 µF
					3000 V	5600 pF	0.012 µF
					4000 V	1000 pF	5600 pF
					5000 V	680 pF	3900 pF
4838	0.470 (11.94) ± 0.020 (0.51)	0.430 (10.92) max.	0.220 (5.59)	0.020 (0.51) ± 0.010 (0.25)	500 V	0.068 µF	0.68 µF
					1000 V	0.027 µF	0.15 µF
					2000 V	6800 pF	0.039 µF
					3000 V	2700 pF	0.015 µF
5848	0.570 (14.48) ± 0.020 (0.51)	0.530 (13.46) max.	0.220 (5.59)	0.020 (0.51) ± 0.010 (0.25)	4000 V	1200 pF	6800 pF
					5000 V	820 pF	4700 pF
					500 V	0.056 µF	0.47 µF
					1000 V	0.033 µF	0.15 µF
6860	0.670 (17.02) ± 0.020 (0.51)	0.650 (16.51) max.	0.220 (5.59)	0.020 (0.51) ± 0.010 (0.25)	2000 V	5600 pF	0.027 µF
					3000 V	3900 pF	0.012 µF
					4000 V	1000 pF	4700 pF
					5000 V	820 pF	3300 pF
6860	0.670 (17.02) ± 0.020 (0.51)	0.650 (16.51) max.	0.220 (5.59)	0.020 (0.51) ± 0.010 (0.25)	500 V	0.1 µF	0.68 µF
					1000 V	0.047 µF	0.22 µF
					2000 V	0.01 µF	0.047 µF
					3000 V	6800 pF	0.022 µF
					4000 V	1800 pF	8200 pF
					5000 V	1500 pF	4700 pF
6860	0.670 (17.02) ± 0.020 (0.51)	0.650 (16.51) max.	0.220 (5.59)	0.020 (0.51) ± 0.010 (0.25)	500 V	0.15 µF	1.0 µF
					1000 V	0.068 µF	0.33 µF
					2000 V	0.015 µF	0.068 µF
					3000 V	0.01 µF	0.033 µF
					4000 V	2700 pF	0.012 µF
					5000 V	2200 pF	8200 pF

Other sizes available.



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