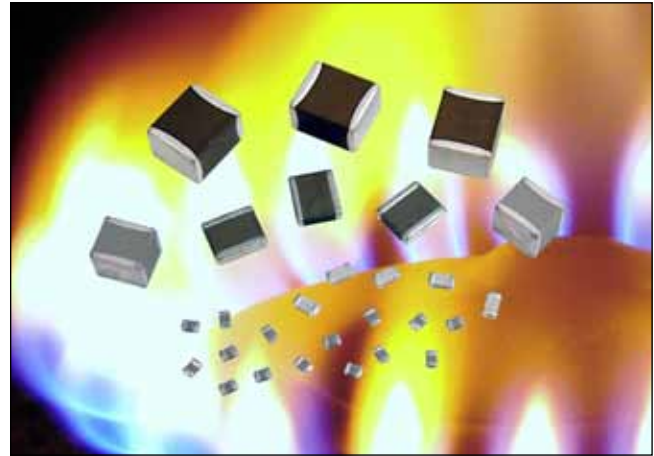


# High Temperature Caps - 160°C, 200°C

A range of chip capacitors, available in sizes 0805 to 7565, designed to operate from -55°C to 160°C, (Class II Dielectric) and from -55°C to 200°C (COG/NPO and Class II Dielectrics). Voltage ratings of 25V to 4kV.



## Maximum capacitance values - 160°C COG (F)/Class II (G) and 200°C COG/NPO (D)/Class II (E) Dielectrics

Size	0805	1206	1210	1515	1808	1812	1825	2225	3530	4540	6560	7565
<b>Tmax</b>	0.054 1.37	0.064 1.63	0.065 1.65	0.130 3.30	0.065 1.65	0.065 1.65	0.080 2.03	0.080 2.03	0.250 6.35	0.300 7.62	0.300 7.62	0.300 7.62

## Maximum capacitance values - COG/NPO - 160°C (F) and 200°C (D)

Min cap.	0R5	1R0	5R0	5R0	120	220	330	470	221	390	560	101
<b>25V</b>	2.7nF	5.6nF	12nF	22nF	12nF	22nF	56nF	56nF	100nF	180nF	330nF	390nF
<b>50V</b>	1.8nF	3.9nF	8.2nF	18nF	8.2nF	15nF	39nF	47nF	82nF	150nF	270nF	330nF
<b>100V</b>	680pF	1.8nF	3.3nF	10nF	3.3nF	8.2nF	15nF	18nF	56nF	100nF	220nF	270nF
<b>250V</b>	180pF	1.0nF	2.2nF	3.9nF	2.2nF	5.6nF	12nF	18nF	33nF	56nF	120nF	150nF
<b>500V</b>	100pF	390pF	820pF	2.7nF	1.0nF	2.2nF	3.9nF	5.6nF	12nF	27nF	56nF	68nF
<b>1kV</b>	47pF	100pF	220pF	820pF	220pF	560pF	820pF	1.0nF	5.6nF	15nF	33nF	39nF
<b>2kV</b>	•	27pF	56pF	180pF	56pF	120pF	180pF	270pF	1.5nF	3.3nF	8.2nF	10nF
<b>3kV</b>	•	•	•	82pF	22pF	56pF	82pF	100pF	560pF	1.5nF	3.3nF	3.9nF
<b>4kV</b>	•	•	•	47pF	12pF	27pF	33pF	47pF	330pF	820pF	1.8nF	2.2nF

## Maximum capacitance values - Class II - 160°C (G) and 200°C (E)

Min cap.	121	121	121	151	151	151	471	471	102	102	222	222
<b>25V</b>	82nF	220nF	390nF	820nF	330nF	680nF	1.5µF	1.8µF	3.9µF	5.6µF	15µF	18µF
<b>50V</b>	47nF	120nF	220nF	680nF	270nF	470nF	1.0µF	1.2µF	2.7µF	4.7µF	12µF	15µF
<b>100V</b>	18nF	47nF	100nF	270nF	82nF	150nF	470nF	470nF	2.2µF	3.3µF	8.2µF	12µF
<b>250V</b>	4.7nF	10nF	27nF	68nF	22nF	47nF	120nF	150nF	560nF	1.2µF	2.7µF	3.9µF
<b>500V</b>	1.0nF	2.2nF	5.6nF	18nF	5.6nF	10nF	27nF	33nF	120nF	330nF	680nF	820nF
<b>1kV</b>	180pF	390pF	820pF	2.7nF	820pF	1.5nF	4.7nF	5.6nF	27nF	68nF	150nF	220nF
<b>2kV</b>	•	•	150pF	560pF	•	220pF	560pF	680pF	6.8nF	18nF	39nF	47nF
<b>3kV</b>	•	•	•	•	•	•	•	•	2.7nF	6.8nF	15nF	18nF
<b>4kV</b>	•	•	•	•	•	•	•	•	1.2nF	2.7nF	5.6nF	8.2nF

## Ordering information - High Temperature Capacitors

1206	G	224	K	250	N	X050	H	T	M
Chip size	Dielectric codes	Capacitance in picofarads (pF)	Capacitance tolerance code	Voltage code	Termination codes	Thickness options	High Reliability Testing	Packaging	Marking
0805 1206 1210 1515 1808 1812 1825 2225 3530 4540 6560 7565	F = COG/NPO High Temp. (up to 160°C)  D = COG/NPO High Temp. (up to 200°C)  E = Class II High Temp. (up to 200°C)  G = Class II High Temp. (up to 160°C)	Value in Picofarads. Two significant figures, followed by number of zeros:  224 = 220nF (220,000pF)	F = ±1% (COG/NPO) G = ±2% (COG/NPO) J = ±5% (X8R) K = ±10% (Class II) M = ±20% (Class II)	Two significant figures, followed by number of zeros: 250 = 25 Volts	P = Palladium Silver PR = Palladium Silver* K = Solderable Palladium Silver* N = Nickel Barrier* 100% tin Y = Nickel Barrier* 90% tin, 10% lead C = FlexiCap™/Nickel Barrier* 100% tin D = FlexiCap™/Nickel Barrier* 90% tin, 10% lead S = Solderable Silver*  *Indicates RoHS terminations Note: Nickel barrier not available in 200°C dielectric	Blank = Standard thickness "X" = Special thickness, specified in inches: X050 = 0.050"	High Temperature Screening	None = Bulk T = Tape & Reel W = Waffle Pack	None = Unmarked M = Marked  *Marking not available on sizes <0603