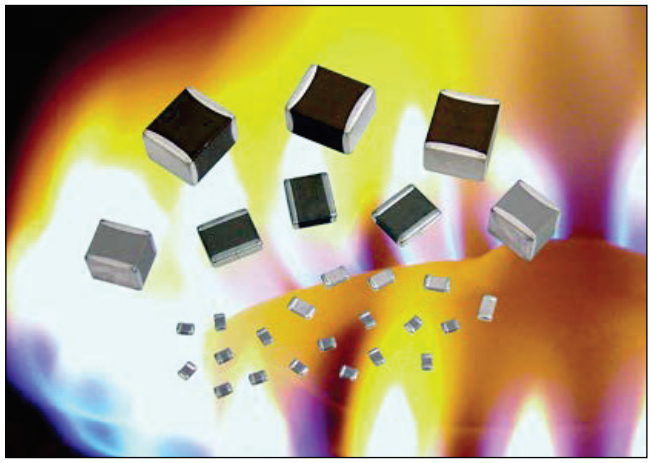
High Temperature Caps - 160°C, 200°C

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 -55ºC to 200ºC (C0G/NP0 and Class II Dielectrics). Voltage ratings of 25V to 4kV.



Maximum capacitance values - 160ºC C0G (F)/Class II (G) and 200ºC C0G/NP0 (D)/Class II (E) Dielectrics

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

Maximum capacitance values - C0G/NP0 - 160ºC (F) and 200ºC (D)

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

Maximum capacitance values - Class II - 160ºC (G) and 200ºC (E)

Min cap.	121	121	121	151	151	151	471	471	102	102	222	222
25V	82nF	220nF	390nF	820nF	330nF	680nF	1.5µF	1.8µF	3.9µF	5.6µF	15µF	18µF
50V	47nF	120nF	220nF	680nF	270nF	470nF	1.0µF	1.2µF	2.7µF	4.7µF	12µF	15µF
100V	18nF	47nF	100nF	270nF	82nF	150nF	470nF	470nF	2.2µF	3.3µF	8.2µF	12µF
250V	4.7nF	10nF	27nF	68nF	22nF	47nF	120nF	150nF	560nF	1.2µF	2.7µF	3.9µF
500V	1.0nF	2.2nF	5.6nF	18nF	5.6nF	10nF	27nF	33nF	120nF	330nF	680nF	820nF
1kV	180pF	390pF	820pF	2.7nF	820pF	1.5nF	4.7nF	5.6nF	27nF	68nF	150nF	220nF
2kV	•	•	150pF	560pF	•	220pF	560pF	680pF	6.8nF	18nF	39nF	47nF
3kV	•	•	•	•	•	•	•	•	2.7nF	6.8nF	15nF	18nF
4kV	•	•	•	•	•	•	•	•	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** = C0G/NP0 High Temp. (up to 160ºC) **D** = C0G/NP0 High Temp. (up to 200ºC) **E** = Class II High Temp. (up to 200ºC) **G** = Class II High Temp. (up to 160ºC)	Value in Picofarads. Two significant figures, followed by number of zeros: **224** = 220nF (220,000pF)	**F** = ±1% (C0G/NP0) **G** = ±2% (C0G/NP0) **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 200ºC 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