

NPQ - HIGH Q DIELECTRIC CAPACITORS

For use in applications where the loss from traditional NPO formulations will not meet the circuit needs, Presidio recommends its NPQ – High Q Dielectric Capacitors. Made from low loss porcelain ceramic dielectric, the designator NPQ differentiates the ceramic from NPO in our part numbering system.

Size	L (inches)	W (inches)	Thickness Max. (T) (inches)	Metalization Band (M.B.) (inches)	WVDC	Max. Cap.
0402	0.040 ± 0.004	0.020 ± 0.004	0.024	0.004 min. band 0.015 min. space	50 V	18 pF
0403	0.040 ± 0.010	0.030 ± 0.010	0.030	0.004 min. band 0.015 min. space	50 V	33 pF
0504	0.050 ± 0.010	0.040 ± 0.010	0.040	0.005 min. band 0.015 min. space	50 V	82 pF
0505	0.055 ± 0.010	0.055 ± 0.010	0.055	0.005 min. band 0.015 min. space	50 V	100 pF
0603	0.063 ± 0.006	0.032 ± 0.006	0.035	0.005 min. band 0.025 min. space	50 V	47 pF
0805	0.080 ± 0.010	0.050 ± 0.010	0.050	0.020 ± 0.010	50 V	270 pF
1010	0.110 ± 0.015	0.110 ± 0.015	0.100	0.020 ± 0.010	50 V	1000 pF
1206	0.126 ± 0.008	0.063 ± 0.008	0.059	0.020 ± 0.010	50 V	820 pF

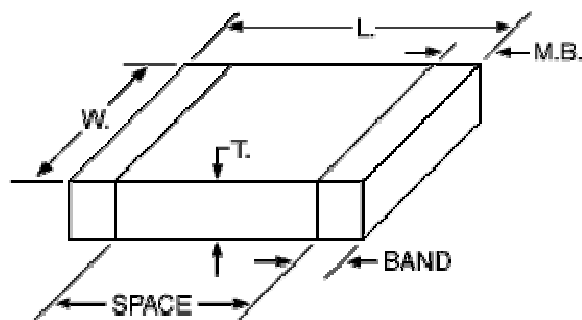


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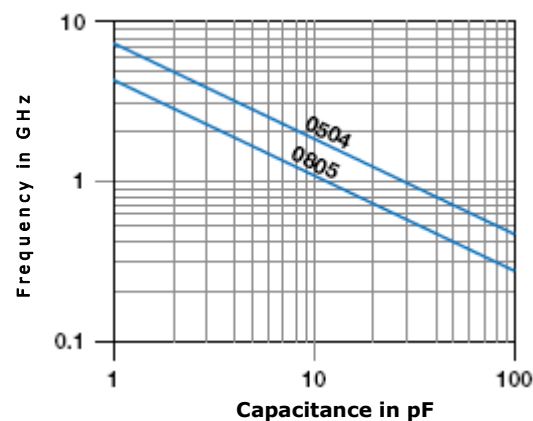
7169 Construction Court, San Diego, CA 92121 USA • Tel: 858-578-9390 • Fax: 800-538-3880 or 858-578-6225
Web: www.presidiocomponents.com • Email: info@presidiocomponents.com

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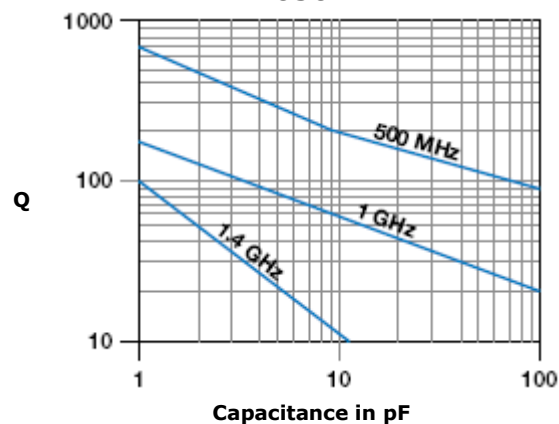
CAP DIMENSIONS



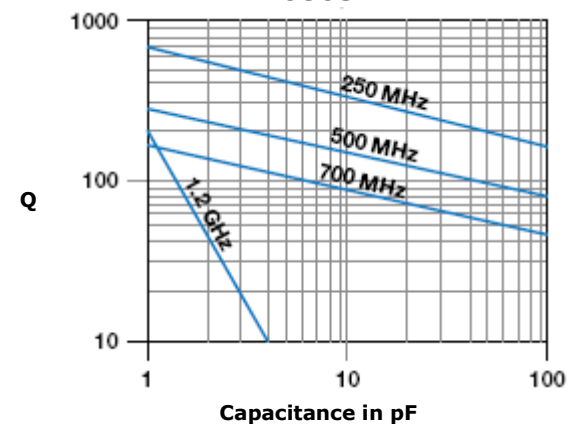
Resonant Frequency vs. Capacitance



Capacitance vs. Q 0504



Capacitance vs. Q 0805



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HOW TO ORDER

Example: 0805NPQ101K2P3

Prefix	0805 Size Code	NPQ Dielectric Code	101 Capacitance Code	K Tolerance Code	2 Voltage Code	P Termination Code	3 Marking and Packaging	Special Code
blank HV HT	See table above.	NPQ	Capacitance (in picofarads): Two significant figures followed by the number of zeros. Example: 103=10,000pF =.01μF	A = ±.10% C = ±.25% D = ±.50% F = ±1% G = ±2% J = ±5% M = ±20% Z = +80% P = +100%	10V = 10 V 12V = 12 V 16V = 16 V 1 = 25 V 2 = 50 V 3 = 100 V 4 = 200 V 5 = 300 V 6 = 500 V 7 = 600 V 8 = 750 V 9 = 1000 V 10 = 1500 V 11 = 2000 V 12 = 2500 V 13 = 3000 V 14 = 4000 V 15 = 5000 V	P = Palladium Silver NT9 = 90/10 Tin/Lead over Nickel NG = Gold over Nickel	1 = Reel, 7", plastic tape, unmarked 2 = Reel, 7", plastic tape, marked 3 = Bulk, unmarked 4 = Bulk, marked 5 = Waffle, unmarked 6 = Waffle, marked A = Reel, 13", plastic tape, unmarked B = Reel, 13", plastic tape, marked C = Reel, 7", paper, unmarked (0402 and 0603 only) D = Reel, 13", paper, marked (0402 and 0603 only)	Add "A" for non- standard dimensions



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