



3838 HIGH Q NPO CERAMIC CAPACITORS FOR RF & MICROWAVE

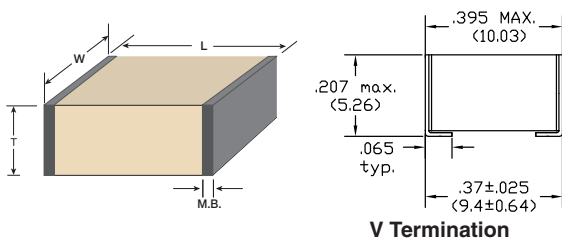
- Low ESR, High Q
- Q = 10,000 at 1 MHz
- For Use Up to Ku-Band
- 100% Made in U.S.A.
- Superior Mechanical Strength
- Suitable for Military and Space

PRESIDIO PART NUMBER	CAP. (pF)	TOL.	WVDC STD, EXT
3838NPO1R0_ST1C-	1.0	B,C,D	3.6K, 7.2K
3838NPO1R1_ST1C-	1.1	B,C,D	3.6K, 7.2K
3838NPO1R2_ST1C-	1.2	B,C,D	3.6K, 7.2K
3838NPO1R3_ST1C-	1.3	B,C,D	3.6K, 7.2K
3838NPO1R5_ST1C-	1.5	B,C,D	3.6K, 7.2K
3838NPO1R6_ST1C-	1.6	B,C,D	3.6K, 7.2K
3838NPO1R8_ST1C-	1.8	B,C,D	3.6K, 7.2K
3838NPO2R0_ST1C-	2.0	B,C,D	3.6K, 7.2K
3838NPO2R2_ST1C-	2.2	B,C,D	3.6K, 7.2K
3838NPO2R4_ST1C-	2.4	B,C,D	3.6K, 7.2K
3838NPO2R7_ST1C-	2.7	B,C,D	3.6K, 7.2K
3838NPO3R0_ST1C-	3.0	B,C,D	3.6K, 7.2K
3838NPO3R3_ST1C-	3.3	B,C,D	3.6K, 7.2K
3838NPO3R6_ST1C-	3.6	B,C,D	3.6K, 7.2K
3838NPO3R9_ST1C-	3.9	B,C,D	3.6K, 7.2K
3838NPO4R3_ST1C-	4.3	B,C,D	3.6K, 7.2K
3838NPO4R7_ST1C-	4.7	B,C,D	3.6K, 7.2K
3838NPO5R1_ST1C-	5.1	B,C,D	3.6K, 7.2K
3838NPO5R6_ST1C-	5.6	B,C,D	3.6K, 7.2K
3838NPO6R2_ST1C-	6.2	B,C,D	3.6K, 7.2K
3838NPO6R8_ST1C-	6.8	B,C,D	3.6K, 7.2K
3838NPO7R5_ST1C-	7.5	B,C,D	3.6K, 7.2K
3838NPO8R2_ST1C-	8.2	B,C,D	3.6K, 7.2K
3838NPO9R1_ST1C-	9.1	B,C,D	3.6K, 7.2K
3838NPO100_ST1C-	10	F,G,J,K,M	3.6K, 7.2K
3838NPO110_ST1C-	11	F,G,J,K,M	3.6K, 7.2K
3838NPO120_ST1C-	12	F,G,J,K,M	3.6K, 7.2K
3838NPO130_ST1C-	13	F,G,J,K,M	3.6K, 7.2K
3838NPO150_ST1C-	15	F,G,J,K,M	3.6K, 7.2K
3838NPO160_ST1C-	16	F,G,J,K,M	3.6K, 7.2K

PRESIDIO PART NUMBER	CAP. (pF)	TOL.	WVDC STD, EXT
3838NPO180_ST1C-	18	F,G,J,K,M	3.6K, 7.2K
3838NPO200_ST1C-	20	F,G,J,K,M	3.6K, 7.2K
3838NPO220_ST1C-	22	F,G,J,K,M	3.6K, 7.2K
3838NPO240_ST1C-	24	F,G,J,K,M	3.6K, 7.2K
3838NPO270_ST1C-	27	F,G,J,K,M	3.6K, 7.2K
3838NPO300_ST1C-	30	F,G,J,K,M	3.6K, 7.2K
3838NPO330_ST1C-	33	F,G,J,K,M	3.6K, 7.2K
3838NPO360_ST1C-	36	F,G,J,K,M	3.6K, 7.2K
3838NPO390_ST1C-	39	F,G,J,K,M	3.6K, 7.2K
3838NPO430_ST1C-	43	F,G,J,K,M	3.6K, 7.2K
3838NPO470_ST1C-	47	F,G,J,K,M	3.6K, 7.2K
3838NPO510_ST1C-	51	F,G,J,K,M	3.6K, 7.2K
3838NPO560_ST1C-	56	F,G,J,K,M	3.6K, 7.2K
3838NPO620_ST1C-	62	F,G,J,K,M	3.6K, 7.2K
3838NPO680_ST1C-	68	F,G,J,K,M	3.6K, 7.2K
3838NPO750_ST1C-	75	F,G,J,K,M	3.6K, 7.2K
3838NPO820_ST1C-	82	F,G,J,K,M	3.6K, 7.2K
3838NPO910_ST1C-	91	F,G,J,K,M	3.6K, 7.2K
3838NPO101_ST1C-	100	F,G,J,K,M	3.6K, 7.2K
3838NPO111_ST1C-	110	F,G,J,K,M	3.6K, 5.0K
3838NPO121_ST1C-	120	F,G,J,K,M	3.6K, 5.0K
3838NPO131_ST1C-	130	F,G,J,K,M	3.6K, 5.0K
3838NPO151_ST1C-	150	F,G,J,K,M	3.6K, 5.0K
3838NPO161_ST1C-	160	F,G,J,K,M	3.6K, 5.0K
3838NPO181_ST1C-	180	F,G,J,K,M	3.6K, 5.0K
3838NPO201_ST1C-	200	F,G,J,K,M	3.6K, 5.0K
3838NPO221_ST1C-	220	F,G,J,K,M	3600
3838NPO241_ST1C-	240	F,G,J,K,M	3600
3838NPO271_ST1C-	270	F,G,J,K,M	3600
3838NPO301_ST1C-	300	F,G,J,K,M	3600

PRESIDIO PART NUMBER	CAP. (pF)	TOL.	WVDC STD, EXT
3838NPO331_ST1C-	330	F,G,J,K,M	3600
3838NPO361_ST1C-	360	F,G,J,K,M	3600
3838NPO391_ST1C-	390	F,G,J,K,M	3600
3838NPO431_QT1C-	430	F,G,J,K,M	2.5K, 3.6K
3838NPO471_QT1C-	470	F,G,J,K,M	2.5K, 3.6K
3838NPO511_QT1C-	510	F,G,J,K,M	2.5K, 3.6K
3838NPO561_QT1C-	560	F,G,J,K,M	2.5K, 3.6K
3838NPO621_QT1C-	620	F,G,J,K,M	2500
3838NPO681_QT1C-	680	F,G,J,K,M	2500
3838NPO751_QT1C-	750	F,G,J,K,M	2500
3838NPO821_9T1C-	820	F,G,J,K,M	1.0K, 2.5K
3838NPO911_9T1C-	910	F,G,J,K,M	1.0K, 2.5K
3838NPO1022_9T1C-	1000	F,G,J,K,M	1.0K, 2.5K
3838NPO112_9T1C-	1100	F,G,J,K,M	1.0K, 2.5K
3838NPO122_9T1C-	1200	F,G,J,K,M	1.0K, 2.5K
3838NPO152_9T1C-	1500	F,G,J,K,M	1.0K, 2.5K
3838NPO182_9T1C-	1800	F,G,J,K,M	1.0K, 2.5K
3838NPO222_9T1C-	2200	F,G,J,K,M	1.0K, 2.5K
3838NPO242_9T1C-	2400	F,G,J,K,M	1.0K, 2.5K
3838NPO272_6T1C-	2700	F,G,J,K,M	0.5K, 2K
3838NPO302_6T1C-	3000	F,G,J,K,M	500, 2000
3838NPO332_6T1C-	3300	F,G,J,K,M	0.5K, 2K
3838NPO362_6T1C-	3600	F,G,J,K,M	0.5K, 2K
3838NPO392_6T1C-	3900	F,G,J,K,M	0.5K, 2K
3838NPO432_6T1C-	4300	F,G,J,K,M	0.5K, 2K
3838NPO472_6T1C-	4700	F,G,J,K,M	0.5K, 2K
3838NPO512_6T1C-	5100	G,J,K,M	0.5K, 2K
3838NPO562_4T1C-	5600	G,J,K,M	200
3838NPO682_4T1C-	6800	G,J,K,M	200
3838NPO822_4T1C-	8200	G,J,K,M	200
3838NPO103_4T1C-	10,000	G,J,K,M	200

For other cap values contact factory.



Capacitance Codes for Multilayer Capacitor

First Two Digits = Significant Figures of Capacitance in Picofarads

Third Digit = Additional Number of Zeros

Example: 0R1 = 0.1 pF
 1R0 = 1 pF
 100 = 10 pF
 101 = 100 pF
 102 = 1,000 pF
 103 = 10,000 pF

Capacitance Tolerance Codes

Code	Tolerance	Cap Range
B	± 0.1 pF	< 10 pF
C	± 0.25 pF	< 10 pF
D	± 0.5 pF	< 10 pF
F	± 1%	≥ 10 pF
G	± 2%	≥ 10 pF
J	± 5%	≥ 10 pF
K	± 10%	≥ 10 pF
M	± 20%	≥ 10 pF

LENGTH (L) INCH (mm)	WIDTH (W) INCH (mm)	THICKNESS (T) INCH (mm)	METALIZATION BAND (M.B.) INCH (mm)
0.380 ± 0.015 (9.652 ± 0.381)	0.380 ± 0.015 (9.652 ± 0.381)	0.170 MAX (4.32 MAX) V Term: 0.207 Max (5.26 MAX)	0.010 to 0.040 (0.254 to 1.016) V Term: 0.068 MAX (1.727 MAX)

Working Voltage

Code	WVDC	Code	WVDC
4	200	N	1500
&	250	P	2000
5	300	Q	2500
6	500	R	3000
#	800	S	3600
9	1000	U	5000
		+	7200

Packaging Codes

5 = Unmarked, Waffle Pack
 6 = Laser Marked, Waffle Pack
 Laser Marking available at extra cost (except 0402 size)

Termination Codes

Code	RoHS Comp.	Typical Application	Termination Build up	Recommended Reflow Temp.
N	No	Solder Reflow	90% Tin/10% Lead Plated Nickel Barrier Silver Base	220°C to 260°C Typical
T	Yes	Solder Reflow	100% Tin Plated Nickel Barrier Silver Base	220°C to 260°C Typical
P	Yes	Conductive Epoxy	Palladium-Silver Non-Magnetic	Cure Epoxy as per Manufacturer's Spec.
V	Yes	Solder Reflow	Silver Finish Frame Non-Magnetic	220°C to 260°C Typical

RoHS

Code	Compliant
N	No
C	Yes

Dielectrics

NPO
UP

Presidio's NPO capacitors can be upscreened to SPACE LEVEL testing. Consult the factory for details. Some voltage derating may apply.

PART NUMBER EXAMPLE (How to Order)

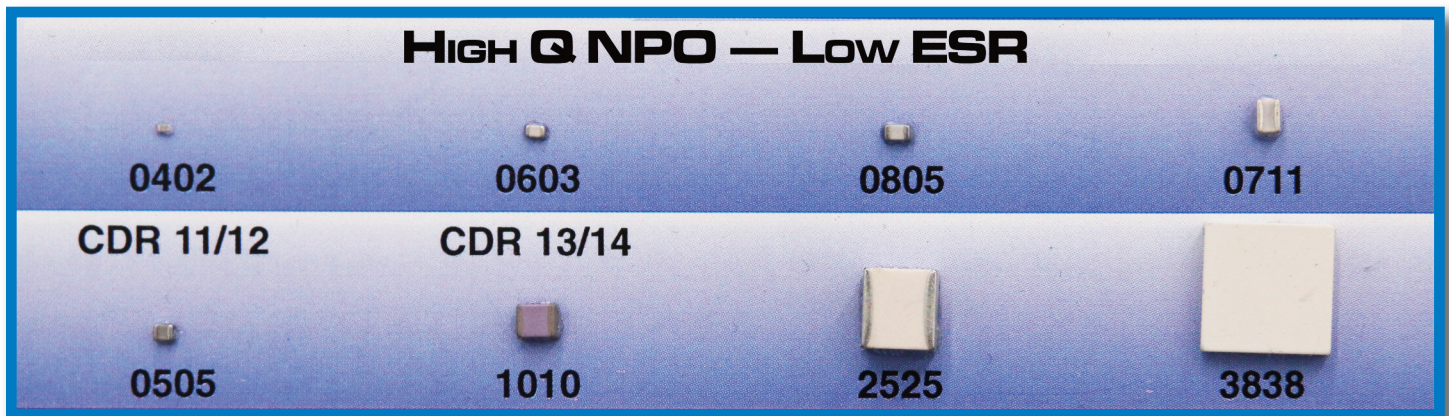
MAY 2022

3838	NPO	101	J	S	T	1	C	-
Size	Dielectric	Capacitance (100 pF)	Capacitance Tolerance (± 5%)	Voltage (3600 V)	Termination (100% Tin)	Packaging (Tape and Reel)	RoHS Compliant	Design-In Code (See Catalog)



HIGH Q NPO CERAMIC CAPACITORS FOR RF & MICROWAVE

- ◆ Low ESR, High Q
- ◆ For Use Up to Ku-Band
- ◆ Superior Mechanical Strength
- ◆ Q = 10,000 at 1 MHz
- ◆ 100% Made in U.S.A.
- ◆ Available for Military & Space
- ◆ Capacitance Values as Low as 0.05pF
- ◆ Very Tight Tolerances Below 2pF



**3838 SIZE AVAILABLE
WITHIN 12 WEEKS ARO**

CONTACT US! WE'RE EASY TO REACH!

