



1010 HIGH Q NPO CERAMIC CAPACITORS FOR RF & MICROWAVE

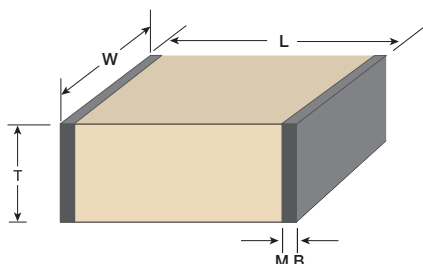
- Low ESR, High Q
- Q = 10,000 at 1 MHz
- For Use Up to Ku-Band
- 100% Made in U.S.A.
- Superior Mechanical Strength
- Suitable for Military and Space

PRESIDIO PART NUMBER	CAP. (pF)	TOL.	WVDC STD, EXT
1010NPO0R1 6N1N-	0.1	A,B	500,1500
1010NPO0R2 6N1N-	0.2	A,B	500,1500
1010NPO0R3 6N1N-	0.3	A,B,C	500,1500
1010NPO0R4 6N1N-	0.4	A,B,C	500,1500
1010NPO0R5 6N1N-	0.5	A,B,C	500,1500
1010NPO0R6 6N1N-	0.6	A,B,C	500,1500
1010NPO0R7 6N1N-	0.7	A,B,C	500,1500
1010NPO0R8 6N1N-	0.8	A,B,C	500,1500
1010NPO0R9 6N1N-	0.9	A,B,C	500,1500
1010NPO1R0 6N1N-	1.0	A,B,C	500,1500
1010NPO1R1 6N1N-	1.1	A,B,C,D	500,1500
1010NPO1R2 6N1N-	1.2	A,B,C,D	500,1500
1010NPO1R3 6N1N-	1.3	A,B,C,D	500,1500
1010NPO1R5 6N1N-	1.5	A,B,C,D	500,1500
1010NPO1R6 6N1N-	1.6	A,B,C,D	500,1500
1010NPO1R8 6N1N-	1.8	A,B,C,D	500,1500
1010NPO2R0 6N1N-	2.0	A,B,C,D	500,1500
1010NPO2R2 6N1N-	2.2	A,B,C,D	500,1500
1010NPO2R4 6N1N-	2.4	A,B,C,D	500,1500
1010NPO2R7 6N1N-	2.7	A,B,C,D	500,1500
1010NPO3R0 6N1N-	3.0	A,B,C,D	500,1500
1010NPO3R3 6N1N-	3.3	A,B,C,D	500,1500
1010NPO3R6 6N1N-	3.6	A,B,C,D	500,1500
1010NPO3R9 6N1N-	3.9	A,B,C,D	500,1500
1010NPO4R3 6N1N-	4.3	A,B,C,D	500,1500
1010NPO4R7 6N1N-	4.7	A,B,C,D	500,1500
1010NPO5R1 6N1N-	5.1	A,B,C,D	500,1500
1010NPO5R6 6N1N-	5.6	A,B,C,D	500,1500
1010NPO6R2 6N1N-	6.2	A,B,C,D	500,1500
1010NPO6R8 6N1N-	6.8	A,B,C,D	500,1500
1010NPO7R5 6N1N-	7.5	A,B,C,D	500,1500

PRESIDIO PART NUMBER	CAP. (pF)	TOL.	WVDC STD, EXT
1010NPO8R2 6N1N-	8.2	A,B,C,D	500,1500
1010NPO9R1 6N1N-	9.1	A,B,C,D	500,1500
1010NPO100 6N1N-	10	F,G,J,K,M	500,1500
1010NPO110 6N1N-	11	F,G,J,K,M	500,1500
1010NPO120 6N1N-	12	F,G,J,K,M	500,1500
1010NPO130 6N1N-	13	F,G,J,K,M	500,1500
1010NPO150 6N1N-	15	F,G,J,K,M	500,1500
1010NPO160 6N1N-	16	F,G,J,K,M	500,1500
1010NPO180 6N1N-	18	F,G,J,K,M	500,1500
1010NPO200 6N1N-	20	F,G,J,K,M	500,1500
1010NPO220 6N1N-	22	F,G,J,K,M	500,1500
1010NPO240 6N1N-	24	F,G,J,K,M	500,1500
1010NPO270 6N1N-	27	F,G,J,K,M	500,1500
1010NPO300 6N1N-	30	F,G,J,K,M	500,1500
1010NPO330 6N1N-	33	F,G,J,K,M	500,1500
1010NPO360 6N1N-	36	F,G,J,K,M	500,1500
1010NPO390 6N1N-	39	F,G,J,K,M	500,1500
1010NPO430 6N1N-	43	F,G,J,K,M	500,1500
1010NPO470 6N1N-	47	F,G,J,K,M	500,1500
1010NPO510 6N1N-	51	F,G,J,K,M	500,1500
1010NPO560 6N1N-	56	F,G,J,K,M	500,1500
1010NPO620 6N1N-	62	F,G,J,K,M	500,1500
1010NPO680 6N1N-	68	F,G,J,K,M	500,1500
1010NPO750 6N1N-	75	F,G,J,K,M	500,1500
1010NPO820 6N1N-	82	F,G,J,K,M	500,1500
1010NPO910 6N1N-	91	F,G,J,K,M	500,1500
1010NPO101 6N1N-	100	F,G,J,K,M	500,1500
1010NPO111 5N1N-	110	F,G,J,K,M	300,1500
1010NPO121 5N1N-	120	F,G,J,K,M	300,1000
1010NPO131 5N1N-	130	F,G,J,K,M	300,1000
1010NPO151 5N1N-	150	F,G,J,K,M	300,1000

PRESIDIO PART NUMBER	CAP. (pF)	TOL.	WVDC STD, EXT
1010NPO161 5N1N-	160	F,G,J,K,M	300,1000
1010NPO181 5N1N-	180	F,G,J,K,M	300,1000
1010NPO201 5N1N-	200	F,G,J,K,M	300,1000
1010NPO221 4N1N-	220	F,G,J,K,M	200,1000
1010NPO241 4N1N-	240	F,G,J,K,M	200,600
1010NPO271 4N1N-	270	F,G,J,K,M	200,600
1010NPO301 4N1N-	300	F,G,J,K,M	200,600
1010NPO331 4N1N-	330	F,G,J,K,M	200,600
1010NPO361 4N1N-	360	F,G,J,K,M	200,600
1010NPO391 4N1N-	390	F,G,J,K,M	200,600
1010NPO431 4N1N-	430	F,G,J,K,M	200,600
1010NPO471 4N1N-	470	F,G,J,K,M	200,600
1010NPO511 3N1N-	510	F,G,J,K,M	100,300
1010NPO561 3N1N-	560	F,G,J,K,M	100,300
1010NPO621 3N1N-	620	F,G,J,K,M	100,300
1010NPO681 2N1N-	680	F,G,J,K,M	50,300
1010NPO751 2N1N-	750	F,G,J,K,M	50,300
1010NPO821 2N1N-	820	F,G,J,K,M	50,300
1010NPO911 2N1N-	910	F,G,J,K,M	50,300
1010NPO102 2N1N-	1000	F,G,J,K,M	50,300
1010NPO122 2N1N-	1200	F,G,J,K,M	50
1010NPO152 2N1N-	1500	F,G,J,K,M	50
1010NPO182 2N1N-	1800	F,G,J,K,M	50
1010NPO222 2N1N-	2200	F,G,J,K,M	50
1010NPO272 2N1N-	2700	F,G,J,K,M	50
1010NPO332 2N1N-	3300	F,G,J,K,M	50
1010NPO392 2N1N-	3900	F,G,J,K,M	50
1010NPO472 2N1N-	4700	F,G,J,K,M	50
1010NPO562 2N1N-	5600	F,G,J,K,M	50

For other cap values contact factory.
Voltages in **BOLD** for military and space.



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
A	± 0.05 pF	< 10 pF
B	± 0.1 pF	< 10 pF
C	± 0.25 pF	< 10 pF
D	± 0.5 pF	< 10 pF
E	± 0.5%	≥ 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)
0.110 ± 0.020 / - 0.010 (2.794 ± 0.508 / - 0.254)	0.110 ± 0.015 (2.794 ± 0.381)	0.102 MAX (2.591 MAX)	0.005 to 0.030 (0.127 to 0.762)

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
G	Yes	Conductive Epoxy, Wire Bondable	50 μ" Gold Typical Nickel Barrier Silver Base	Cure Epoxy as per Manufacturer's Spec.
P	Yes	Conductive Epoxy	Palladium-Silver Non-Magnetic	Cure Epoxy as per Manufacturer's Spec.
X	Yes	Solder Reflow	100% Tin Plated Non-Magnetic Barrier Silver Base	220°C to 260°C Typical

Working Voltage

Code	WVDC	Code	WVDC
2	50	5	300
3	100	6	500
A	150	#	800
4	200	9	1000
&	250	N	1500

Packaging Codes

- 1 = Unmarked, 7" Tape & Reel
 - 2 = Laser Marked, 7" Tape & Reel
 - M = Laser Marked, Vertical Orientation, 7" Tape & Reel
 - 5 = Unmarked, Waffle Pack
 - 6 = Laser Marked, Waffle Pack
- Laser Marking available at extra cost (except 0402 size)

RoHS

Code	Compliant
N	No
C	Yes

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)

1010	NPO	101	J	6	N	1	N	-
Size	Dielectric	Capacitance (100 pF)	Capacitance Tolerance (± 5%)	Voltage (500 V)	Termination (Plated SnPb)	Packaging (Tape and Reel)	Not RoHS Compliant	Design-In Code (See Page 19)

Call factory for digital copy of S2P files.

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