



1010 NPO CERAMIC CAPACITORS FOR RF & MICROWAVE

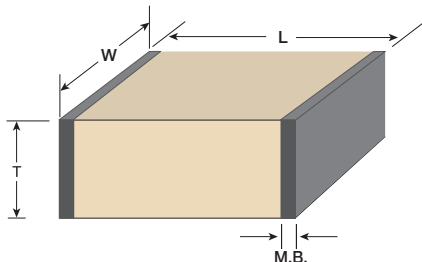
- Low ESR, High Q
- Q = 10,000 at 1 MHz
- For Use Up to Ku-Band
- 100% Made in U.S.A.
- Superior Mechanical Strength
- Suitable for Military and Space

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	300,1000
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.
T	Yes	Solder Reflow	100% Tin Plated Nickel Barrier Silver Base	220°C to 260°C Typical
X	Yes	Solder Reflow	100% Tin Plated Non-Magnetic Barrier Silver Base	220°C to 260°C Typical
N	No	Solder Reflow	90% Tin/10% Lead Plated Nickel Barrier Silver Base	220°C to 260°C Typical
P	Yes	Conductive Epoxy Non-Magnetic	Palladium-Silver	Cure Epoxy as per Manufacturer's Spec.
G	Yes	Conductive Epoxy, Wire Bondable	50 μ" Gold Typical Nickel Barrier Silver Base	Cure Epoxy as per Manufacturer's Spec.

Working Voltage

Code	WVDC	Code	WVDC
1	25	5	300
2	50	6	500
3	100	#	800
A	150	9	1000
4	200	N	1500
&	250		

Packaging Codes

1 = Tape and Reel
5 = Waffle Pack
Marking available upon request (extra cost)

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.

Call factory for digital copy of S2P files.

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)

MAY 2021