

# 0711 HIGH Q NPO CERAMIC CAPACITORS FOR RF & MICROWAVE

Low Inductance

PRESIDIO PART NUMBER	CAP. (pF)	TOL.	WVDC
0711NPO1R0_6N1N-	1.0	A,B,C,D	500
0711NPO1R1_6N1N-	1.1	A,B,C,D	500
0711NPO1R2_6N1N-	1.2	A,B,C,D	500
0711NPO1R3_6N1N-	1.3	A,B,C,D	500
0711NPO1R5_6N1N-	1.5	A,B,C,D	500
0711NPO1R6_6N1N-	1.6	A,B,C,D	500
0711NPO1R8_6N1N-	1.8	A,B,C,D	500
0711NPO2R0_6N1N-	2.0	A,B,C,D	500
0711NPO2R2_6N1N-	2.2	A,B,C,D	500
0711NPO2R4_6N1N-	2.4	A,B,C,D	500
0711NPO2R7_6N1N-	2.7	A,B,C,D	500
0711NPO3R0_6N1N-	3.0	A,B,C,D	500
0711NPO3R3_6N1N-	3.3	A,B,C,D	500
0711NPO3R6_6N1N-	3.6	A,B,C,D	500
0711NPO3R9_6N1N-	3.9	A,B,C,D	500
0711NPO4R3_6N1N-	4.3	A,B,C,D	500
0711NPO4R7_6N1N-	4.7	A,B,C,D	500

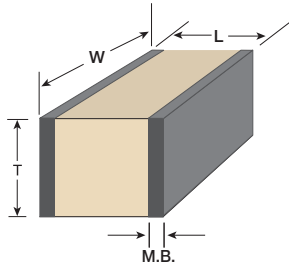
PRESIDIO PART NUMBER	CAP. (pF)	TOL.	WVDC
0711NPO5R1_6N1N-	5.1	A,B,C,D	500
0711NPO5R6_6N1N-	5.6	A,B,C,D	500
0711NPO6R2_6N1N-	6.2	A,B,C,D	500
0711NPO6R8_6N1N-	6.8	A,B,C,D	500
0711NPO7R5_6N1N-	7.5	A,B,C,D	500
0711NPO8R2_6N1N-	8.2	A,B,C,D	500
0711NPO8R9_6N1N-	9.1	A,B,C,D	500
0711NPO100_6N1N-	10	F,G,J,K	500
0711NPO110_6N1N-	11	F,G,J,K	500
0711NPO120_6N1N-	12	F,G,J,K	500
0711NPO130_6N1N-	13	F,G,J,K	500
0711NPO150_6N1N-	15	F,G,J,K	500
0711NPO160_6N1N-	16	F,G,J,K	500
0711NPO180_6N1N-	18	F,G,J,K	500
0711NPO200_6N1N-	20	F,G,J,K	500
0711NPO220_6N1N-	22	F,G,J,K	500

PRESIDIO PART NUMBER	CAP. (pF)	TOL.	WVDC
0711NPO240_6N1N-	24	F,G,J,K	500
0711NPO270_6N1N-	27	F,G,J,K	500
0711NPO300_6N1N-	30	F,G,J,K	500
0711NPO330_6N1N-	33	F,G,J,K	500
0711NPO360_6N1N-	36	F,G,J,K	500
0711NPO390_6N1N-	39	F,G,J,K	500
0711NPO430_6N1N-	43	F,G,J,K	500
0711NPO470_6N1N-	47	F,G,J,K	500
0711NPO510_6N1N-	51	F,G,J,K	500
0711NPO560_6N1N-	56	F,G,J,K	500
0711NPO620_6N1N-	62	F,G,J,K	500
0711NPO680_6N1N-	68	F,G,J,K	500
0711NPO750_6N1N-	75	F,G,J,K	500
0711NPO820_6N1N-	82	F,G,J,K	500
0711NPO910_6N1N-	91	F,G,J,K	500
0711NPO101_6N1N-	100	F,G,J,K	500

For military and space voltage ratings and other cap values please contact factory.

## PART NUMBER CODES AND DIMENSIONS

Note:  
Reverse geometry offering a lower inductance.



### 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)
0.070 ± 0.015 (1.778 ± .381)	0.105 ± 0.01 (2.667 ± 0.254)	0.090 MAX (2.286 MAX)	0.005 to 0.020 (0.127 to 0.508)

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	<b>Palladium-Silver Non-Magnetic</b>	Cure Epoxy as per Manufacturer's Spec.

### Working Voltage

Code	WVDC
1	25
2	50
3	100
A	150
4	200
&	250
5	300
6	500

### Packaging Codes

1 = Unmarked, Tape & Reel  
2 = Laser Marked, 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.

Call factory for digital copy of S2P files.

## PART NUMBER EXAMPLE (How to Order)

0711	NPO	270	J	6	N	1	N	-
Size	Dielectric	Capacitance (27 pF)	Capacitance Tolerance (± 5%)	Voltage (500 V)	Termination (Plated SnPb)	Packaging (Tape and Reel)	Not RoHS Compliant	Design-In Code (See end of catalog)

# A WORD TO THE DESIGN ENGINEER

## About Presidio “Design In” Codes

After the design work is done, outsourcing manufacturing on a global basis is a management option. At Presidio Components, we are striving for complete customer satisfaction which includes “after” service for all of our products.

We added a “Design In” locator code for quick traceability, if needed. Please select your location from the list below and add the appropriate code at the end of the part number.

If you need assistance give us a call at **(858) 578-9390** or email us at **info@presidiocomponents.com**.

### UNITED STATES

### OUTSIDE THE UNITED STATES

USA	Code	USA	Code	Americas	Code	Europe	Code
Alabama	G	Nebraska	P	Canada	R	Austria	3
Alaska	P	Nevada, North	B	Mexico	R	Belgium	1
Arizona	D	Nevada, South	C	Caribbean	R	Denmark	5
Arkansas	P	New Hampshire	L	Central America	R	Finland	5
California, North	B	New Jersey	J	South America	R	France	2
California, South	C	New Mexico	D			Germany	3
Colorado	E	New York, Metro	J	<b>Pacific Rim</b>		Ireland	6
Connecticut	L	New York, Upstate	K	Australia	S	Italy	4
Delaware	I	North Carolina	G	China	T	Luxembourg	1
District of Columbia	H	North Dakota	O	Japan	U	Netherlands	1
Florida	G	Ohio	M	Korea, South	V	Norway	5
Georgia	G	Oklahoma	P	Malaysia	W	Sweden	5
Hawaii	P	Oregon	A	Singapore	X	Switzerland	3
Idaho	A	Pennsylvania	I	Other Pacific Rim Countries	Y	United Kingdom	6
Illinois	N	Rhode Island	L			Other European Countries	7
Indiana	M	South Carolina	G			<b>Other</b>	
Iowa	O	South Dakota	O			India	Z
Kansas	P	Tennessee	G			Israel	8
Kentucky	M	Texas	F			Rest of World	9
Louisiana	P	Utah	E				
Maine	L	Vermont	L				
Maryland	H	Virginia	H				
Massachusetts	L	Washington	A				
Michigan	N	West Virginia	P				
Minnesota	O	Wisconsin, East	N				
Mississippi	G	Wisconsin, West	O				
Missouri	N	Wyoming	E				
Montana	A						

**PART NUMBER EXAMPLE:**  
**0505NPO101FAN1NA**

**PART DESCRIPTION: Ceramic Capacitor,  
 0505, NPO, 100pF ± 1%,  
 150 VDC, Plated SnPb, Tape and Reel,  
 Non RoHS, Design-In Code A for  
 Washington State.**