

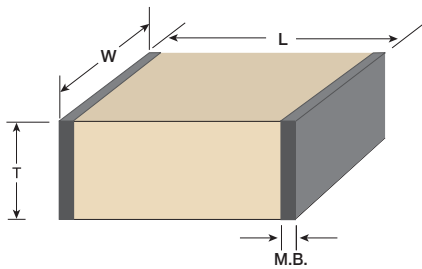
3838 NPO CERAMIC CAPACITORS FOR RF AND MICROWAVE

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	2500
3838NPO471_QT1C-	470	F,G,J,K,M	2500
3838NPO511_QT1C-	510	F,G,J,K,M	2500
3838NPO561_QT1C-	560	F,G,J,K,M	2500
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	1000
3838NPO911_9T1C-	910	F,G,J,K,M	1000
3838NPO102_9T1C-	1000	F,G,J,K,M	1000
3838NPO122_9T1C-	1200	F,G,J,K,M	1000
3838NPO152_9T1C-	1500	F,G,J,K,M	1000
3838NPO182_9T1C-	1800	F,G,J,K,M	1000
3838NPO222_9T1C-	2200	F,G,J,K,M	1000
3838NPO272_6T1C-	2700	F,G,J,K,M	500
3838NPO332_6T1C-	3300	F,G,J,K,M	500
3838NPO392_6T1C-	3900	F,G,J,K,M	500
3838NPO472_6T1C-	4700	F,G,J,K,M	500
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

Voltages in **BOLD** for Hi-Rel.



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 ± 0.020 (9.652 ± 0.508)	0.380 ± 0.020 (9.652 ± 0.508)	0.190 MAX (4.822 MAX)	0.010 to 0.040 (0.254 to 1.016)

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
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	9	1000
2	50	N	1500
3	100	P	2000
A	150	Q	2500
4	200	R	3000
&	250	S	3600
5	300	U	5000
6	500	+	7200
#	800		

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.

PART NUMBER EXAMPLE (How to Order)

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 Page 19)

A WORD TO THE DESIGN ENGINEER

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	Pacific Rim		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			Other	
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.