

3838 HIGH Q NPO CERAMIC CAPACITORS

FOR RF & MICROWAVE

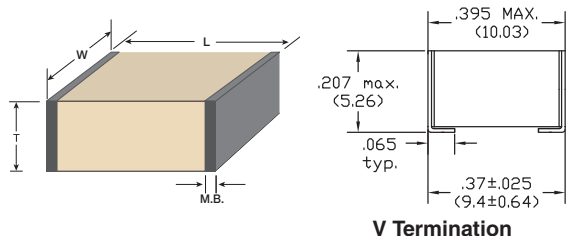
(Larger Sizes Available)

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
3838NPO102_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)

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

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)

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)

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 Web Link)

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	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				
Iowa	O	South Dakota	O			Other	
Kansas	P	Tennessee	G			India	Z
Kentucky	M	Texas	F			Israel	8
Louisiana	P	Utah	E			Rest of World	9
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.**



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