



# TIGHT TOLERANCE CAPACITORS AS LOW AS $\pm 0.01\text{pF}$

Custom Tolerances & Values Available to Fit Your Needs

## FEATURES:

- Ultra Tight Tolerances
- Compatible with Solvent-Based Cleaning Systems
- Low ESR, High Q
- Short Lead Times
- 100% Made in U.S.A.
- Superior Mechanical Strength
- Suitable for Military & Space
- Custom Cap Values
- Custom Tolerances



## HOW TO ORDER

0505	NPO	OR55	4	3	N	1	N
SIZE	Dielectric	Capacitance	Tolerance	Voltage Rating	Termination	Packaging	RoHS
0201 0402 0505 0603	TC = $\pm 30\text{ppm}/^\circ\text{C}$	In pF. Two significant figures followed by the number of zeros.  For values below 10pF the letter R is the decimal point.  Examples: 15pF = 150 1.5pF = 1R50 1.55pF = 1R55 0.55pF = 0R55	For Caps $\leq 2\text{pF}$ 3 = $\pm 0.01\text{pF}$ 4 = $\pm 0.02\text{pF}$ 5 = $\pm 0.03\text{pF}$ A = $\pm 0.05\text{pF}$ B = $\pm 0.10\text{pF}$ For Caps 2.1-3.0pF 5 = $\pm 0.03\text{pF}$ A = $\pm 0.05\text{pF}$ B = $\pm 0.10\text{pF}$ For Caps 3.1-9.9pF A = $\pm 0.05\text{pF}$ B = $\pm 0.10\text{pF}$ For Caps $\geq 10\text{pF}$ E = $\pm 0.5\%$ F = $\pm 1\%$ G = $\pm 2\%$	G = 16V 1 = 25V 2 = 50V 3 = 100V A = 150V 4 = 200V & = 250V	N = Ag base, Ni barrier, 90%Sn/10%Pb plated  T = Ag base Ni barrier 100%Sn plated  P = Thick Film PdAg  Other Terminations Available. Contact Factory.	1 = Unmarked Tape & Reel 2 = Laser Marked, Tape & Reel 5 = Unmarked, Waffle Pack 6 = Laser Marked, Waffle Pack  Laser Marking Available for 0603 & 0505 Only	N = Non RoHS C = RoHS

Military & Space Screening Available. Contact Factory.

# TIGHT TOLERANCE CAPACITORS SIZE 0201

PRESIDIO PART NUMBER	CAP. (pF)	TOL.	WVDC
0201NPO05M1N1N-	0.05	3,4,5,A	25
0201NPO0R1_1N1N-	0.1	3,4,5,A,B	25
0201NPO0R2_1N1N-	0.2	3,4,5,A,B	25
0201NPO0R3_1N1N-	0.3	3,4,5,A,B	25
0201NPO0R4_1N1N-	0.4	3,4,5,A,B	25
0201NPO0R5_1N1N-	0.5	3,4,5,A,B	25
0201NPO0R6_1N1N-	0.6	3,4,5,A,B	25
0201NPO0R7_1N1N-	0.7	3,4,5,A,B	25
0201NPO0R8_1N1N-	0.8	3,4,5,A,B	25
0201NPO0R9_1N1N-	0.9	3,4,5,A,B	25
0201NPO1R0_1N1N-	1.0	3,4,5,A,B	25
0201NPO1R1_1N1N-	1.1	3,4,5,A,B	25
0201NPO1R2_1N1N-	1.2	3,4,5,A,B	25
0201NPO1R3_1N1N-	1.3	3,4,5,A,B	25
0201NPO1R5_1N1N-	1.5	3,4,5,A,B	25
0201NPO1R6_1N1N-	1.6	3,4,5,A,B	25
0201NPO1R8_1N1N-	1.8	3,4,5,A,B	25
0201NPO2R0_1N1N-	2.0	3,4,5,A,B	25
0201NPO2R2_1N1N-	2.2	5,A,B	25
0201NPO2R4_1N1N-	2.4	5,A,B	25

All intermediate capacitance values are available.

PRESIDIO PART NUMBER	CAP. (pF)	TOL.	WVDC
0201NPO2R7_1N1N-	2.7	5,A,B	25
0201NPO3R0_1N1N-	3.0	5,A,B	25
0201NPO3R3_1N1N-	3.3	A,B	25
0201NPO3R6_1N1N-	3.6	A,B	25
0201NPO3R9_1N1N-	3.9	A,B	25
0201NPO4R3_1N1N-	4.3	A,B	25
0201NPO4R7_1N1N-	4.7	A,B	25
0201NPO5R1_1N1N-	5.1	A,B	25
0201NPO5R6_1N1N-	5.6	A,B	25
0201NPO6R2_1N1N-	6.2	A,B	25
0201NPO6R8_1N1N-	6.8	A,B	25
0201NPO7R5_1N1N-	7.5	A,B	25
0201NPO8R2_1N1N-	8.2	A,B	25
0201NPO9R1_1N1N-	9.1	A,B	25
0201NPO100_1N1N-	10	E,F,G	25
0201NPO110_1N1N-	11	E,F,G	25
0201NPO120_1N1N-	12	E,F,G	25
0201NPO130_1N1N-	13	E,F,G	25
0201NPO150_1N1N-	15	E,F,G	25
0201NPO160_1N1N-	16	E,F,G	25

PRESIDIO PART NUMBER	CAP. (pF)	TOL.	WVDC
0201NPO180_1N1N-	18	E,F,G	25
0201NPO200_1N1N-	20	E,F,G	25
0201NPO220_1N1N-	22	E,F,G	25
0201NPO240_1N1N-	24	E,F,G	25
0201NPO270_1N1N-	27	E,F,G	25
0201NPO300_1N1N-	30	E,F,G	25
0201NPO330_1N1N-	33	E,F,G	25
0201NPO360_1N1N-	36	E,F,G	25
0201NPO390_1N1N-	39	E,F,G	25
0201NPO430_1N1N-	43	E,F,G	25
0201NPO470_1N1N-	47	E,F,G	25
0201NPO510_1N1N-	51	E,F,G	25
0201NPO560_1N1N-	56	E,F,G	25
0201NPO620_1N1N-	62	E,F,G	25
0201NPO680_1N1N-	68	E,F,G	25
0201NPO750_1N1N-	75	E,F,G	25
0201NPO820_1N1N-	82	E,F,G	25
0201NPO910_1N1N-	91	E,F,G	25
0201NPO101_1N1N-	100	E,F,G	25

# TIGHT TOLERANCE CAPACITORS SIZE 0505

PRESIDIO PART NUMBER	CAP. (pF)	TOL.	WVDC STD, EXT
0505NPO05MAN1N-	0.05	3,4,5,A	<b>150, 250</b>
0505NPO0R1_AN1N-	0.1	3,4,5,A,B	<b>150, 250</b>
0505NPO0R2_AN1N-	0.2	3,4,5,A,B	<b>150, 250</b>
0505NPO0R3_AN1N-	0.3	3,4,5,A,B	<b>150, 250</b>
0505NPO0R4_AN1N-	0.4	3,4,5,A,B	<b>150, 250</b>
0505NPO0R5_AN1N-	0.5	3,4,5,A,B	<b>150, 250</b>
0505NPO0R6_AN1N-	0.6	3,4,5,A,B	<b>150, 250</b>
0505NPO0R7_AN1N-	0.7	3,4,5,A,B	<b>150, 250</b>
0505NPO0R8_AN1N-	0.8	3,4,5,A,B	<b>150, 250</b>
0505NPO0R9_AN1N-	0.9	3,4,5,A,B	<b>150, 250</b>
0505NPO1R0_AN1N-	1.0	3,4,5,A,B	<b>150, 250</b>
0505NPO1R1_AN1N-	1.1	3,4,5,A,B	<b>150, 250</b>
0505NPO1R2_AN1N-	1.2	3,4,5,A,B	<b>150, 250</b>
0505NPO1R3_AN1N-	1.3	3,4,5,A,B	<b>150, 250</b>
0505NPO1R5_AN1N-	1.5	3,4,5,A,B	<b>150, 250</b>
0505NPO1R6_AN1N-	1.6	3,4,5,A,B	<b>150, 250</b>
0505NPO1R8_AN1N-	1.8	3,4,5,A,B	<b>150, 250</b>
0505NPO2R0_AN1N-	2.0	3,4,5,A,B	<b>150, 250</b>
0505NPO2R2_AN1N-	2.2	5,A,B	<b>150, 250</b>
0505NPO2R4_AN1N-	2.4	5,A,B	<b>150, 250</b>
0505NPO2R7_AN1N-	2.7	5,A,B	<b>150, 250</b>
0505NPO3R0_AN1N-	3.0	5,A,B	<b>150, 250</b>
0505NPO3R3_AN1N-	3.3	A,B	<b>150, 250</b>
0505NPO3R6_AN1N-	3.6	A,B	<b>150, 250</b>
0505NPO3R9_AN1N-	3.9	A,B	<b>150, 250</b>
0505NPO4R3_AN1N-	4.3	A,B	<b>150, 250</b>
0505NPO4R7_AN1N-	4.7	A,B	<b>150, 250</b>
0505NPO5R1_AN1N-	5.1	A,B	<b>150, 250</b>

All intermediate capacitance values are available.

PRESIDIO PART NUMBER	CAP. (pF)	TOL.	WVDC STD, EXT
0505NPO5R6_AN1N-	5.6	v	<b>150, 250</b>
0505NPO6R2_AN1N-	6.2	A,B	<b>150, 250</b>
0505NPO6R8_AN1N-	6.8	A,B	<b>150, 250</b>
0505NPO7R5_AN1N-	7.5	A,B	<b>150, 250</b>
0505NPO8R2_AN1N-	8.2	A,B	<b>150, 250</b>
0505NPO9R1_AN1N-	9.1	A,B	<b>150, 250</b>
0505NPO100_AN1N-	10	E,F,G	<b>150, 250</b>
0505NPO110_AN1N-	11	E,F,G	<b>150, 250</b>
0505NPO120_AN1N-	12	E,F,G	<b>150, 250</b>
0505NPO130_AN1N-	13	E,F,G	<b>150, 250</b>
0505NPO150_AN1N-	15	E,F,G	<b>150, 250</b>
0505NPO160_AN1N-	16	E,F,G	<b>150, 250</b>
0505NPO180_AN1N-	18	E,F,G	<b>150, 250</b>
0505NPO200_AN1N-	20	E,F,G	<b>150, 250</b>
0505NPO220_AN1N-	22	E,F,G	<b>150, 250</b>
0505NPO240_AN1N-	24	E,F,G	<b>150, 250</b>
0505NPO270_AN1N-	27	E,F,G	<b>150, 250</b>
0505NPO300_AN1N-	30	E,F,G	<b>150, 250</b>
0505NPO330_AN1N-	33	E,F,G	<b>150, 250</b>
0505NPO360_AN1N-	36	E,F,G	<b>150, 250</b>
0505NPO390_AN1N-	39	E,F,G	<b>150, 250</b>
0505NPO430_AN1N-	43	E,F,G	<b>150, 250</b>
0505NPO470_AN1N-	47	E,F,G	<b>150, 250</b>
0505NPO510_AN1N-	51	E,F,G	<b>150, 250</b>
0505NPO560_AN1N-	56	E,F,G	<b>150, 250</b>
0505NPO620_AN1N-	62	E,F,G	<b>150, 250</b>
0505NPO680_AN1N-	68	E,F,G	<b>150, 250</b>
0505NPO750_AN1N-	75	E,F,G	<b>150, 250</b>

PRESIDIO PART NUMBER	CAP. (pF)	TOL.	WVDC STD, EXT
0505NPO820_AN1N-	82	E,F,G	<b>150, 250</b>
0505NPO910_AN1N-	91	E,F,G	<b>150, 250</b>
0505NPO101_AN1N-	100	E,F,G	<b>150, 250</b>
0505NPO111_AN1N-	110	E,F,G	<b>150</b>
0505NPO121_AN1N-	120	E,F,G	<b>150</b>
0505NPO131_AN1N-	130	E,F,G	<b>150</b>
0505NPO151_AN1N-	150	E,F,G	<b>150</b>
0505NPO161_AN1N-	160	E,F,G	<b>150</b>
0505NPO181_AN1N-	180	E,F,G	<b>150</b>
0505NPO201_AN1N-	200	E,F,G	<b>150</b>
0505NPO221_AN1N-	220	E,F,G	<b>150</b>
0505NPO241_AN1N-	240	E,F,G	<b>150</b>
0505NPO271_AN1N-	270	E,F,G	<b>150</b>
0505NPO301_AN1N-	300	E,F,G	<b>150</b>
0505NPO331_AN1N-	330	E,F,G	<b>150</b>
0505NPO361_AN1N-	360	E,F,G	<b>150</b>
0505NPO391_AN1N-	390	E,F,G	<b>150</b>
0505NPO431_AN1N-	430	E,F,G	<b>150</b>
0505NPO471_AN1N-	470	E,F,G	<b>150</b>
0505NPO511_AN1N-	510	E,F,G	<b>150</b>
0505NPO561_AN1N-	560	E,F,G	<b>150</b>
0505NPO621_AN1N-	620	E,F,G	<b>150</b>
0505NPO681_2N1N-*	680	E,F,G	<b>50</b>
0505NPO751_2N1N-*	750	E,F,G	<b>50</b>
0505NPO821_2N1N-*	820	E,F,G	<b>50</b>
0505NPO911_2N1N-*	910	E,F,G	<b>50</b>
0505NPO102_2N1N-*	1000	E,F,G	<b>50</b>

Voltages in **BOLD** are for military & space applications.

# SIZE 0402

PRESIDIO PART NUMBER	CAP. (pF)	TOL.	WVDC
0402NPO05_4N1N-	0.05	3,4,5,A	<b>100, 200</b>
0402NPO0R1_4N1N-	0.1	3,4,5,A,B	<b>100, 200</b>
0402NPO0R2_4N1N-	0.2	3,4,5,A,B	<b>100, 200</b>
0402NPO0R3_4N1N-	0.3	3,4,5,A,B	<b>100, 200</b>
0402NPO0R4_4N1N-	0.4	3,4,5,A,B	<b>100, 200</b>
0402NPO0R5_4N1N-	0.5	3,4,5,A,B	<b>100, 200</b>
0402NPO0R6_4N1N-	0.6	3,4,5,A,B	<b>100, 200</b>
0402NPO0R7_4N1N-	0.7	3,4,5,A,B	<b>100, 200</b>
0402NPO0R8_4N1N-	0.8	3,4,5,A,B	<b>100, 200</b>
0402NPO0R9_4N1N-	0.9	3,4,5,A,B	<b>100, 200</b>
0402NPO1R0_4N1N-	1.0	3,4,5,A,B	<b>100, 200</b>
0402NPO1R1_4N1N-	1.1	3,4,5,A,B	<b>100, 200</b>
0402NPO1R2_4N1N-	1.2	3,4,5,A,B	<b>100, 200</b>
0402NPO1R3_4N1N-	1.3	3,4,5,A,B	<b>100, 200</b>
0402NPO1R5_4N1N-	1.5	3,4,5,A,B	<b>100, 200</b>

All intermediate capacitance values are available.

PRESIDIO PART NUMBER	CAP. (pF)	TOL.	WVDC
0402NPO1R6_4N1N-	1.6	3,4,5,A,B	<b>100, 200</b>
0402NPO1R8_4N1N-	1.8	3,4,5,A,B	<b>100, 200</b>
0402NPO2R0_4N1N-	2.0	3,4,5,A,B	<b>100, 200</b>
0402NPO2R2_4N1N-	2.2	5,A,B	<b>100, 200</b>
0402NPO2R4_4N1N-	2.4	5,A,B	<b>100, 200</b>
0402NPO2R7_4N1N-	2.7	5,A,B	<b>100, 200</b>
0402NPO3R0_4N1N-	3.0	5,A,B	<b>100, 200</b>
0402NPO3R3_4N1N-	3.3	A,B	<b>100, 200</b>
0402NPO3R6_4N1N-	3.6	A,B	<b>100, 200</b>
0402NPO3R9_4N1N-	3.9	A,B	<b>100, 200</b>
0402NPO4R3_4N1N-	4.3	A,B	<b>100, 200</b>
0402NPO4R7_4N1N-	4.7	A,B	<b>100, 200</b>
0402NPO5R1_4N1N-	5.1	A,B	<b>100, 200</b>
0402NPO5R6_4N1N-	5.6	A,B	<b>100, 200</b>
0402NPO6R2_4N1N-	6.2	A,B	<b>100, 200</b>

PRESIDIO PART NUMBER	CAP. (pF)	TOL.	WVDC
0402NPO6R8_4N1N-	6.8	A,B	<b>100, 200</b>
0402NPO7R5_4N1N-	7.5	A,B	<b>100, 200</b>
0402NPO8R2_4N1N-	8.2	A,B	<b>100, 200</b>
0402NPO9R1_4N1N-	9.1	A,B	<b>100, 200</b>
0402NPO100_4N1N-	10	E,F,G	<b>100, 200</b>
0402NPO110_4N1N-	11	E,F,G	<b>100, 200</b>
0402NPO120_4N1N-	12	E,F,G	<b>100, 200</b>
0402NPO130_4N1N-	13	E,F,G	<b>100, 200</b>
0402NPO150_4N1N-	15	E,F,G	<b>100, 200</b>
0402NPO160_4N1N-	16	E,F,G	<b>100, 200</b>
0402NPO180_4N1N-	18	E,F,G	<b>100, 200</b>
0402NPO200_4N1N-	20	E,F,G	<b>100, 200</b>
0402NPO220_4N1N-	22	E,F,G	<b>100, 200</b>
0402NPO240_4N1N-	24	E,F,G	<b>100, 200</b>
0402NPO270_4N1N-	27	E,F,G	<b>100, 200</b>

Voltages in **BOLD** are for military & space applications.

# SIZE 0603

PRESIDIO PART NUMBER	CAP. (pF)	TOL.	WVDC
0603NPO05M&N1N-	0.05	3,4,5,A	<b>100, 250</b>
0603NPO0R1_&N1N-	0.1	3,4,5,A,B	<b>100, 250</b>
0603NPO0R2_&N1N-	0.2	3,4,5,A,B	<b>100, 250</b>
0603NPO0R3_&N1N-	0.3	3,4,5,A,B	<b>100, 250</b>
0603NPO0R4_&N1N-	0.4	3,4,5,A,B	<b>100, 250</b>
0603NPO0R5_&N1N-	0.5	3,4,5,A,B	<b>100, 250</b>
0603NPO0R6_&N1N-	0.6	3,4,5,A,B	<b>100, 250</b>
0603NPO0R7_&N1N-	0.7	3,4,5,A,B	<b>100, 250</b>
0603NPO0R8_&N1N-	0.8	3,4,5,A,B	<b>100, 250</b>
0603NPO0R9_&N1N-	0.9	3,4,5,A,B	<b>100, 250</b>
0603NPO1R0_&N1N-	1.0	3,4,5,A,B	<b>100, 250</b>
0603NPO1R1_&N1N-	1.1	3,4,5,A,B	<b>100, 250</b>
0603NPO1R2_&N1N-	1.2	3,4,5,A,B	<b>100, 250</b>
0603NPO1R3_&N1N-	1.3	3,4,5,A,B	<b>100, 250</b>
0603NPO1R5_&N1N-	1.5	3,4,5,A,B	<b>100, 250</b>
0603NPO1R6_&N1N-	1.6	3,4,5,A,B	<b>100, 250</b>
0603NPO1R8_&N1N-	1.8	3,4,5,A,B	<b>100, 250</b>
0603NPO2R0_&N1N-	2.0	3,4,5,A,B	<b>100, 250</b>
0603NPO2R2_&N1N-</			



# PRESIDIO PRODUCT LINES

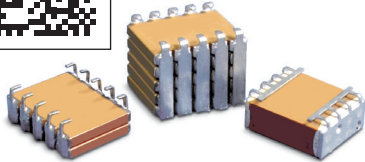
100% U.S. Made, 100% U.S. Owned

## PRESIDIO COMPONENTS, INC.

maintains more than 100 million commercial and military parts in inventory. We also offer multitudes of intermediate sizes, voltages, tolerances, termination finishes, lead-frame styles and more.

Some of our specialties include ceramic capacitors for high temperatures, cryogenic temperatures, pulse discharge applications as well as high Q dielectric, negative and positive temperature characteristic and piezoelectric ceramic formulations.

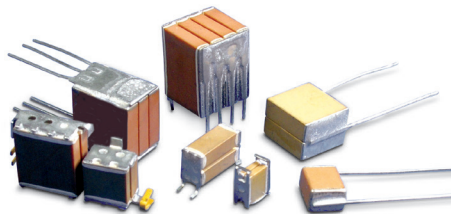
Backed with numerous patents and hundred of years of combined experience, Presidio is well suited to offer a solution to your demanding applications. Please contact our engineering team to discuss your specific needs.



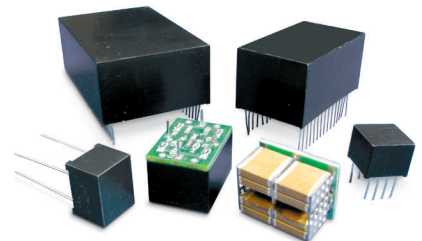
STACKS WITH INTERDIGITATED LEADS



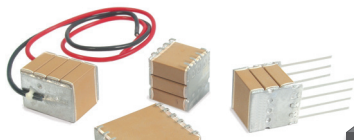
'S' LEAD STACKS



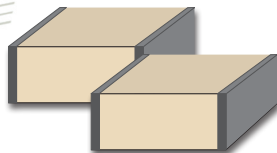
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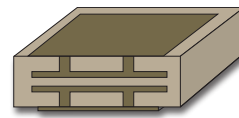
ENCAPSULATED STACKS



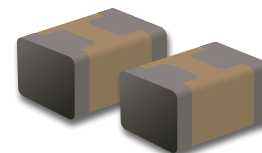
HIGH FREQUENCY HIGH POWER STACKS



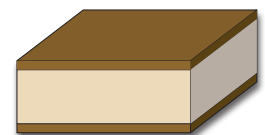
HIGH Q NPO RF CAPACITORS



SMALLEST & BEST IN CLASS WIREBONDABLE SINGLE LAYER



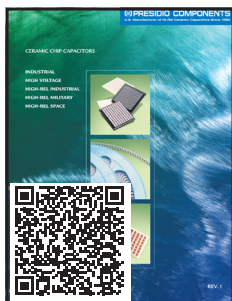
SMD BROADBAND DC BLOCK BB SERIES



WIREBONDABLE BYPASS (VL Series) BROADBAND BYPASS (VB Series)

## MAIN PRODUCT CATALOGS

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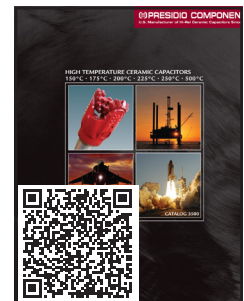
SURFACE MOUNT CERAMIC CHIP CAPACITORS



HIGH RELIABILITY EXTENDED RANGE CHIP CAPACITORS FOR SPACE



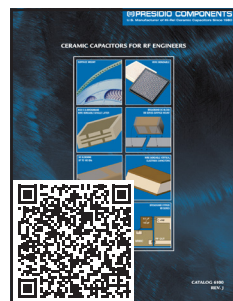
CERAMIC STACKED CAPACITORS FOR SMPS



HIGH TEMPERATURE CERAMIC CAPACITORS



HIGH VOLTAGE RADIAL LEADED & MIL-PRF-49467 CERAMIC CAPACITORS



CERAMIC CAPACITORS FOR RF ENGINEERS



HIGH Q NPO CERAMIC CAPACITORS FOR RF & MICROWAVE



PULSE DISCHARGE CERAMIC CAPACITORS

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