



## 0505 NPO CERAMIC CAPACITORS FOR RF & MICROWAVE

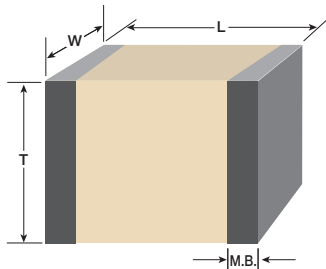
- Low ESR, High Q
- Q = 10,000 at 1 MHz
- For Use Up to Ku-Band
- 100% Made in U.S.A.
- Superior Mechanical Strength
- Suitable for Military and Space

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

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

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

### PART NUMBER CODES AND DIMENSIONS



#### 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

LENGTH (L) INCH (mm)	WIDTH (W) INCH (mm)	THICKNESS (T) INCH (mm)	METALIZATION BAND (M.B.) INCH (mm)
0.055 + 0.015 / - 0.010 (1.397 + 0.381 / - 0.254)	0.055 ± 0.015 (1.397 ± 0.381)	0.057 MAX (1.448 MAX)	0.005 (0.127) min. band 0.015 (0.381) min. space

#### 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 μm Gold Typical Nickel Barrier Silver Base	Cure Epoxy as per Manufacturer's Spec.
M	Yes	Solder Reflow	100% Tin Plated Non-Magnetic	220°C to 260°C Typical

For other cap values contact factory. Voltages in **BOLD** are for military and space.

#### 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

#### Working Voltage

Code	VWDC
1	25
2	50
3	100
A	150
4	200
&	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.**

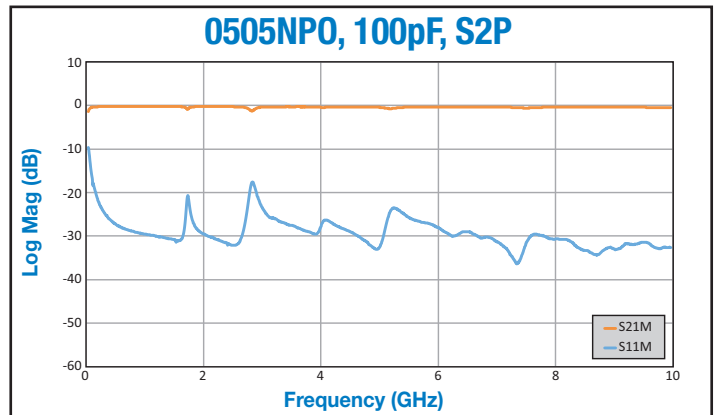
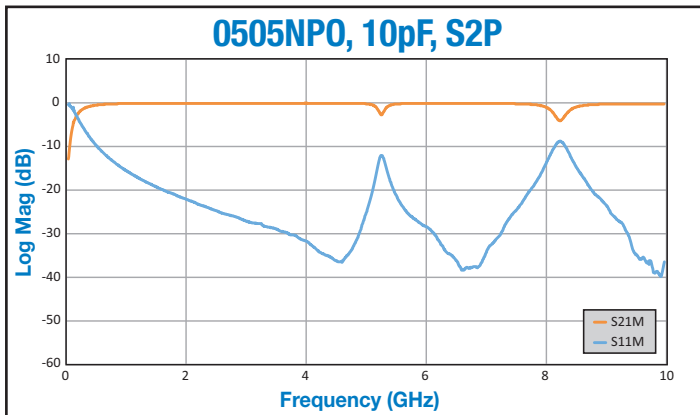
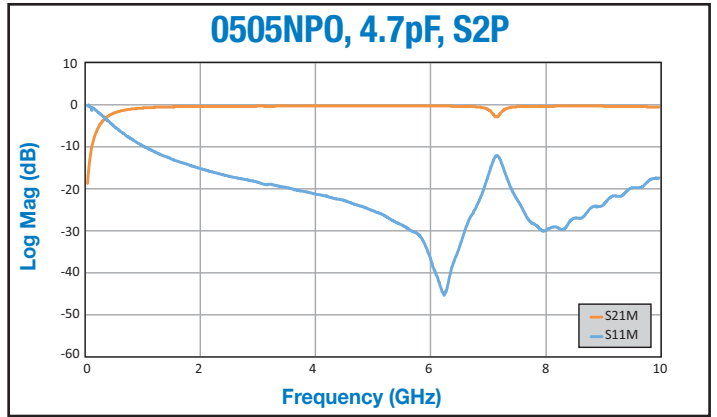
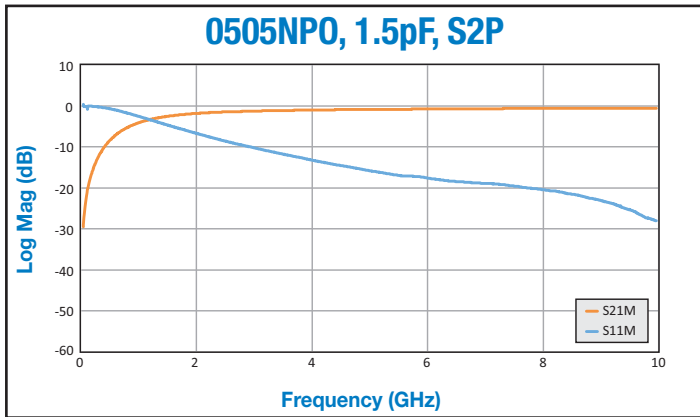
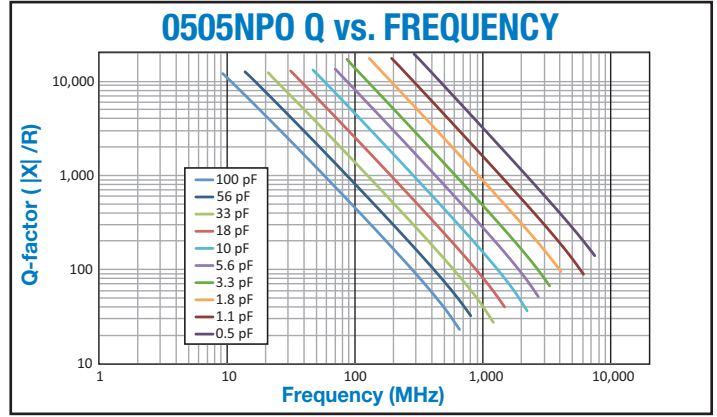
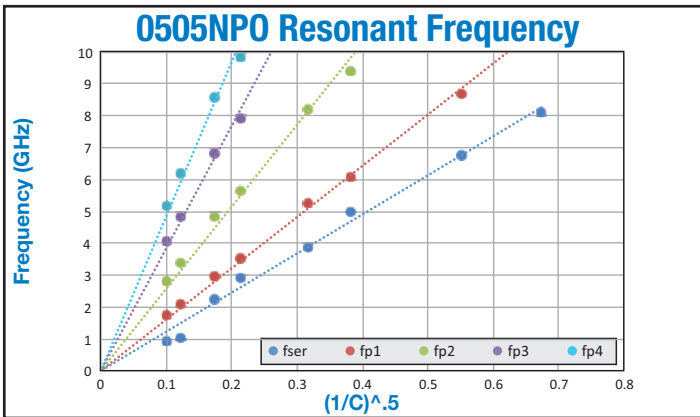
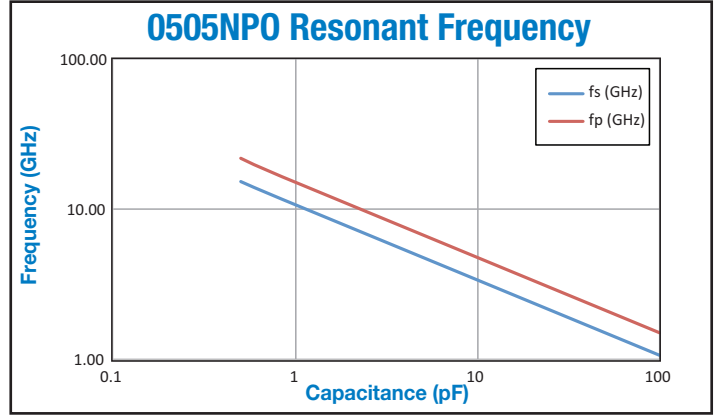
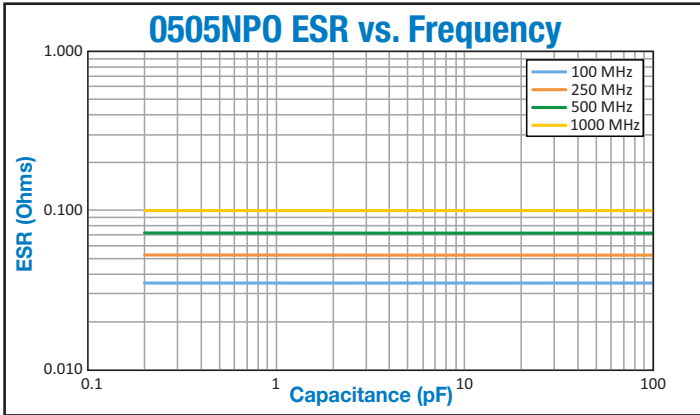
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### PART NUMBER EXAMPLE (How to Order)

MAY 2021

0505	NPO	101	F	A	N	1	N	
Size	Dielectric	Capacitance (100 pF)	Capacitance Tolerance (± 1%)	Voltage (150 V)	Termination (Plated SnPb)	Packaging (Tape and Reel)	RoHS Compliant	Design-In Code (See Page 19)

# 0505 NPO CERAMIC CAPACITORS PERFORMANCE CHARTS



Call factory for digital copy of the 0505 NPO S2P files.



PRESIDIO COMPONENTS, INC.

7169 Construction Court, San Diego, CA 92121 • (858) 578-9390 • info@presidiocomponents.com