

PRESIDIO ULTRA-PORCELAIN™ CAPACITORS

SIZE 0402

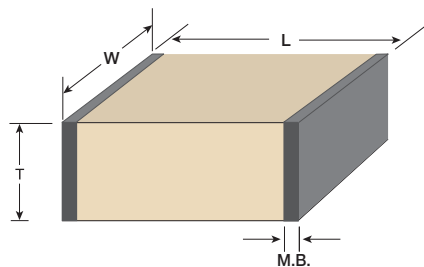
COMMERCIAL PART NUMBER	CAP. (pF)	TOL.	WVDC
0402UPR05M4T1C-*	0.05	M	200
0402UP0R1_4T1C-*	0.1	A,B	200
0402UP0R2_4T1C-*	0.2	A,B	200
0402UP0R3_4T1C-*	0.3	A,B,C	200
0402UP0R4_4T1C-*	0.4	A,B,C	200
0402UP0R5_4T1C-*	0.5	A,B,C	200
0402UP0R6_4T1C-*	0.6	A,B,C	200
0402UP0R7_4T1C-*	0.7	A,B,C	200
0402UP0R8_4T1C-*	0.8	A,B,C	200
0402UP0R9_4T1C-*	0.9	A,B,C	200
0402UP1R0_4T1C-*	1.0	A,B,C,D	200
0402UP1R1_4T1C-*	1.1	A,B,C,D	200
0402UP1R2_4T1C-*	1.2	A,B,C,D	200
0402UP1R3_4T1C-*	1.3	A,B,C,D	200
0402UP1R5_4T1C-*	1.5	A,B,C,D	200

COMMERCIAL PART NUMBER	CAP. (pF)	TOL.	WVDC
0402UP1R6_4T1C-*	1.6	A,B,C,D	200
0402UP1R8_4T1C-*	1.8	A,B,C,D	200
0402UP2R0_4T1C-*	2.0	A,B,C,D	200
0402UP2R2_4T1C-*	2.2	A,B,C,D	200
0402UP2R4_4T1C-*	2.4	A,B,C,D	200
0402UP2R7_4T1C-*	2.7	A,B,C,D	200
0402UP3R0_4T1C-*	3.0	A,B,C,D	200
0402UP3R3_4T1C-*	3.3	A,B,C,D	200
0402UP3R6_4T1C-*	3.6	A,B,C,D	200
0402UP3R9_4T1C-*	3.9	A,B,C,D	200
0402UP4R3_4T1C-*	4.3	A,B,C,D	200
0402UP4R7_4T1C-*	4.7	A,B,C,D	200
0402UP5R1_4T1C-*	5.1	A,B,C,D	200
0402UP5R6_4T1C-*	5.6	A,B,C,D	200
0402UP6R2_4T1C-*	6.2	A,B,C,D	200

COMMERCIAL PART NUMBER	CAP. (pF)	TOL.	WVDC
0402UP6R8_4T1C-*	6.8	A,B,C,D	200
0402UP7R5_4T1C-*	7.5	A,B,C,D	200
0402UP8R2_4T1C-*	8.2	A,B,C,D	200
0402UP9R1_4T1C-*	9.1	A,B,C,D	200
0402UP100_4T1C-*	10	F,G,J	200
0402UP110_4T1C-*	11	F,G,J	200
0402UP120_4T1C-*	12	F,G,J	200
0402UP130_4T1C-*	13	F,G,J	200
0402UP150_4T1C-*	15	F,G,J	200
0402UP160_4T1C-*	16	F,G,J	200
0402UP180_4T1C-*	18	F,G,J	200
0402UP200_4T1C-*	20	F,G,J	200
0402UP220_4T1C-*	22	F,G,J	200
0402UP240_4T1C-*	24	F,G,J	200
0402UP270_4T1C-*	27	F,G,J	200

For other cap values contact factory.

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: 100 = 10 pF
 102 = 1,000 pF
 104 = 100,000 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)
0.040 ± 0.004 (1.02 ± 0.10)	0.020 ± 0.004 (0.508 ± 0.10)	0.024 MAX (0.61) MAX	0.004 (0.102) 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*
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
2	50	9	1000
3	100	N	1500
A	150	P	2000
4	200	Q	2500
&	250	R	3000
5	300	S	3600
6	500	U	5000
#	800	+	7200

Packaging Codes

1 = Tape and Reel
 5 = Waffle Pack

RoHS

Code	Compliant
N	No
R	Legacy (Ended 2012)
C	Yes (Started 1/2013)

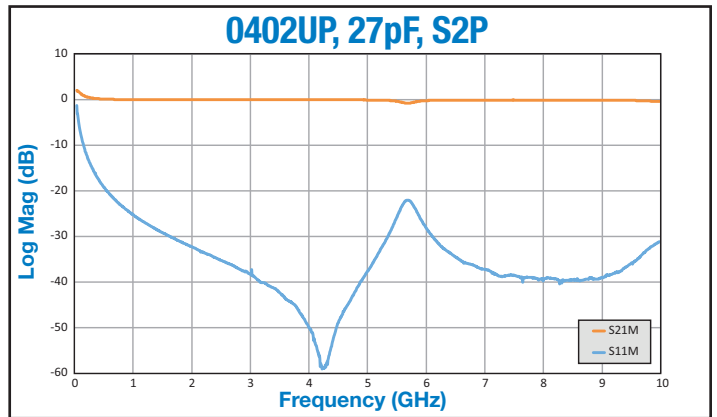
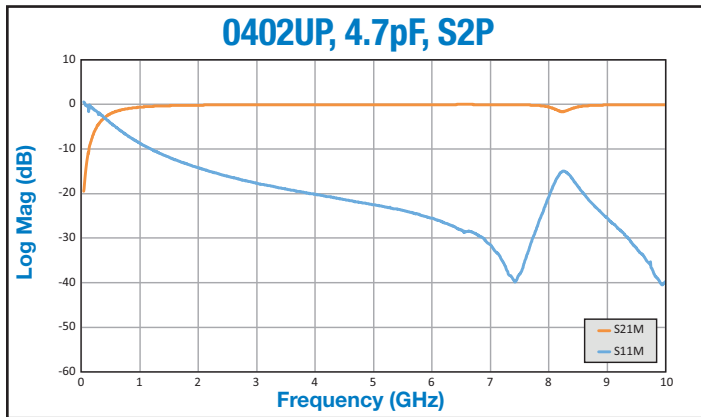
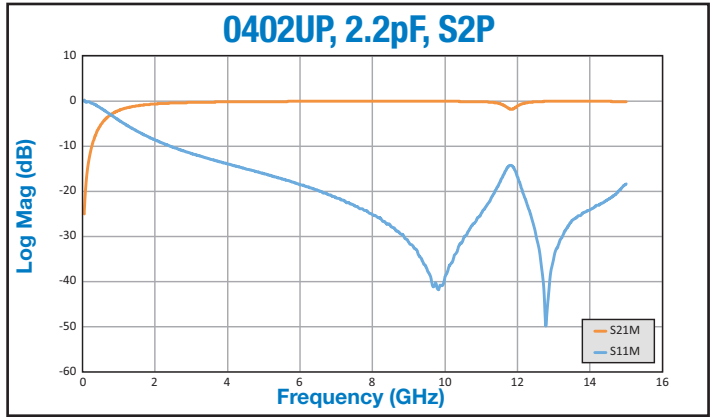
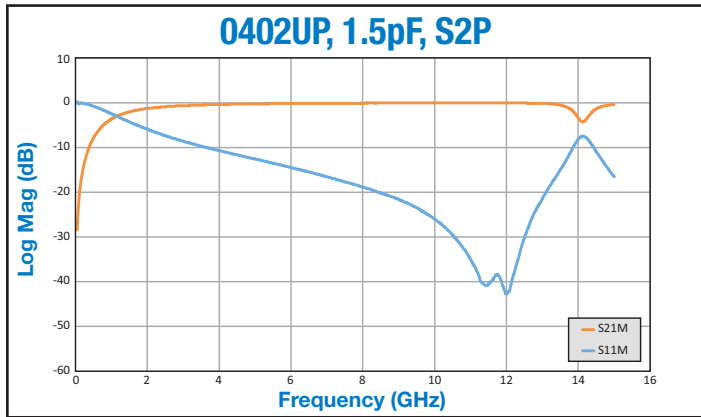
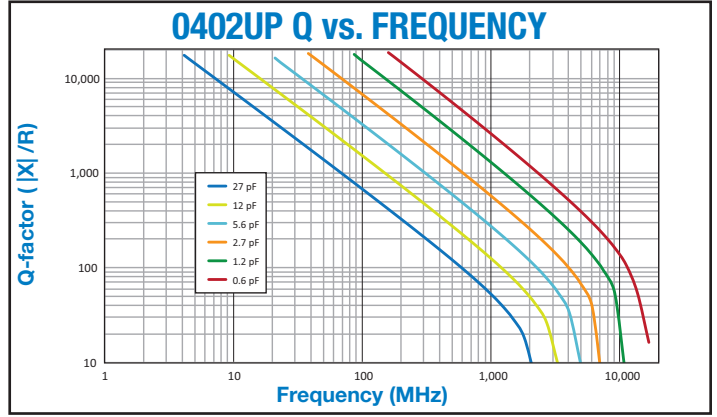
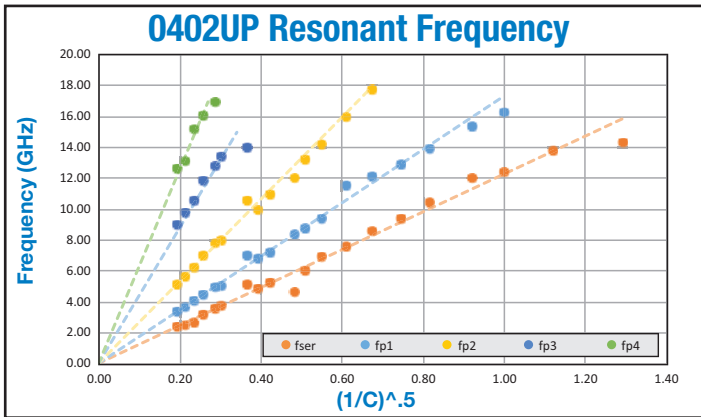
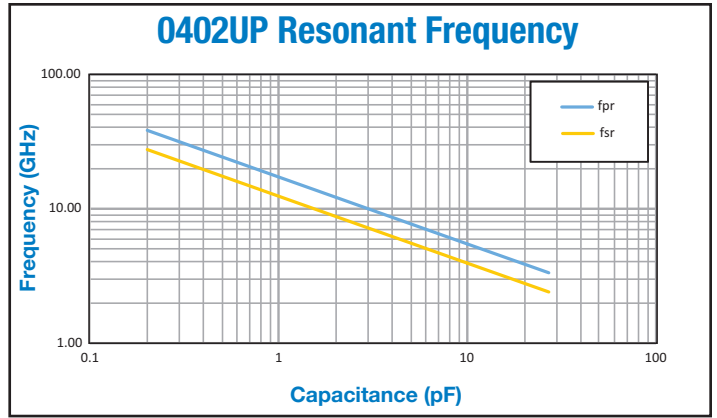
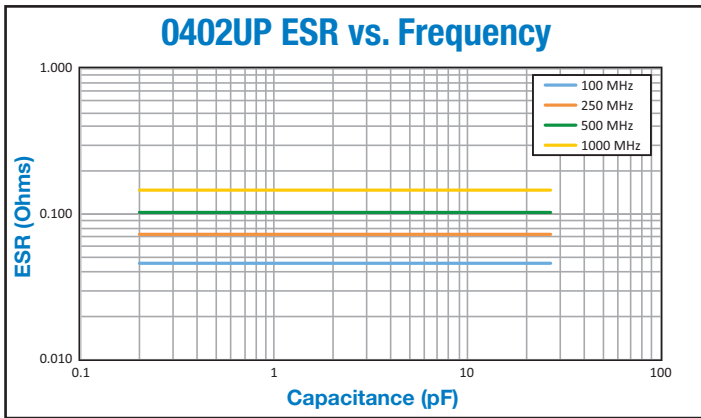
Presidio's UP capacitors can be upscreened to SPACE LEVEL testing. Consult the factory for details. Some voltage derating may apply.

COMMERCIAL PART NUMBER EXAMPLE (How to Order)

0402	UP	270	J	4	T	1	C	A
Size	Dielectric (See Page 3)	Capacitance	Capacitance Tolerance	Voltage	Termination	Packaging	RoHS Compliant	Design-In Code (See Page 19)

PRESIDIO ULTRA-PORCELAIN™ CAPACITORS

0402 PERFORMANCE CHARTS



Call factory for digital copy of the 0402UP S2P files.



PRESIDIO COMPONENTS, INC.

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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:
0505UP101JAT1CA

PART DESCRIPTION: Ceramic Capacitor,
 0505, Ultra-Porcelain™, 100pF ± 5%,
 150 VDC, Tin, Tape and Reel, RoHS,
 Design-In Code A for Washington State.