

PRESIDIO ULTRA-PORCELAIN™ CAPACITORS

SIZE 0603

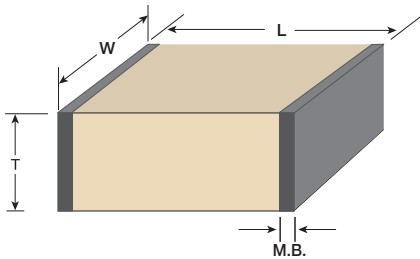
COMMERCIAL PART NUMBER	CAP. (pF)	TOL.	WVDC
0603UPR05M&T1C-*	0.05	M	250
0603UP0R1_&T1C-*	0.1	A,B	250
0603UP0R2_&T1C-*	0.2	A,B	250
0603UP0R3_&T1C-*	0.3	A,B,C	250
0603UP0R4_&T1C-*	0.4	A,B,C	250
0603UP0R5_&T1C-*	0.5	A,B,C	250
0603UP0R6_&T1C-*	0.6	A,B,C	250
0603UP0R7_&T1C-*	0.7	A,B,C	250
0603UP0R8_&T1C-*	0.8	A,B,C	250
0603UP0R9_&T1C-*	0.9	A,B,C	250
0603UP1R0_&T1C-*	1.0	A,B,C	250
0603UP1R1_&T1C-*	1.1	A,B,C,D	250
0603UP1R2_&T1C-*	1.2	A,B,C,D	250
0603UP1R3_&T1C-*	1.3	A,B,C,D	250
0603UP1R5_&T1C-*	1.5	A,B,C,D	250
0603UP1R6_&T1C-*	1.6	A,B,C,D	250
0603UP1R8_&T1C-*	1.8	A,B,C,D	250
0603UP2R0_&T1C-*	2.0	A,B,C,D	250
0603UP2R2_&T1C-*	2.2	A,B,C,D	250
0603UP2R4_&T1C-*	2.4	A,B,C,D	250

COMMERCIAL PART NUMBER	CAP. (pF)	TOL.	WVDC
0603UP2R7_&T1C-*	2.7	A,B,C,D	250
0603UP3R0_&T1C-*	3.0	A,B,C,D	250
0603UP3R3_&T1C-*	3.3	A,B,C,D	250
0603UP3R6_&T1C-*	3.6	A,B,C,D	250
0603UP3R9_&T1C-*	3.9	A,B,C,D	250
0603UP4R3_&T1C-*	4.3	A,B,C,D	250
0603UP4R7_&T1C-*	4.7	A,B,C,D	250
0603UP5R1_&T1C-*	5.1	A,B,C,D	250
0603UP5R6_&T1C-*	5.6	A,B,C,D	250
0603UP6R2_&T1C-*	6.2	A,B,C,D	250
0603UP6R8_&T1C-*	6.8	A,B,C,D	250
0603UP7R5_&T1C-*	7.5	A,B,C,D	250
0603UP8R2_&T1C-*	8.2	A,B,C,D	250
0603UP9R1_&T1C-*	9.1	A,B,C,D	250
0603UP100_&T1C-*	10	F,G,J,K	250
0603UP110_&T1C-*	11	F,G,J,K	250
0603UP120_&T1C-*	12	F,G,J,K	250
0603UP130_&T1C-*	13	F,G,J,K	250
0603UP150_&T1C-*	15	F,G,J,K	250
0603UP160_&T1C-*	16	F,G,J,K	250

COMMERCIAL PART NUMBER	CAP. (pF)	TOL.	WVDC
0603UP180_&T1C-*	18	F,G,J,K	250
0603UP200_&T1C-*	20	F,G,J,K	250
0603UP220_&T1C-*	22	F,G,J,K	250
0603UP240_&T1C-*	24	F,G,J,K	250
0603UP270_&T1C-*	27	F,G,J,K	250
0603UP300_&T1C-*	30	F,G,J,K	250
0603UP330_&T1C-*	33	F,G,J,K	250
0603UP360_&T1C-*	36	F,G,J,K	250
0603UP390_&T1C-*	39	F,G,J,K	250
0603UP430_&T1C-*	43	F,G,J,K	250
0603UP470_&T1C-*	47	F,G,J,K	250
0603UP510_&T1C-*	51	F,G,J,K	250
0603UP560_&T1C-*	56	F,G,J,K	250
0603UP620_&T1C-*	62	F,G,J,K	250
0603UP680_&T1C-*	68	F,G,J,K	250
0603UP750_&T1C-*	75	F,G,J,K	250
0603UP820_&T1C-*	82	F,G,J,K	250
0603UP910_&T1C-*	91	F,G,J,K	250
0603UP101_&T1C-*	100	F,G,J,K	250

PART NUMBER CODES AND DIMENSIONS

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: 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)
0.063 ± 0.006 (1.60 ± 0.15)	0.032 ± 0.006 (0.81 ± 0.15)	0.035 MAX (0.89 MAX)	0.005 (0.127) min. band 0.020 (0.508) 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.
M	Yes	Solder Reflow	100% Tin Plated Non-Magnetic	220°C to 260°C Typical*

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
 2 = Tape and Reel with Marking
 5 = Waffle Pack
 6 = Waffle Pack with Marking

RoHS

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

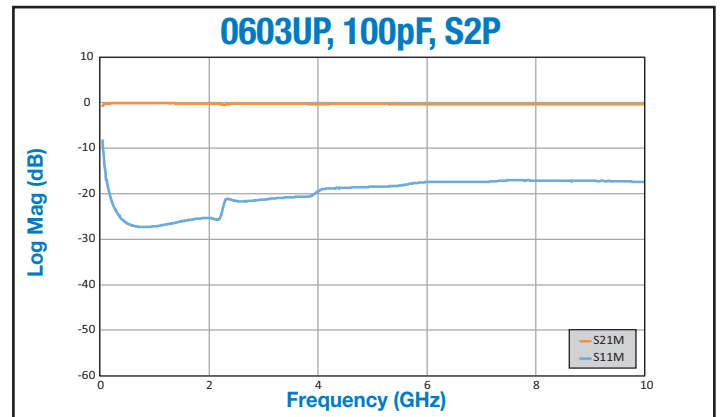
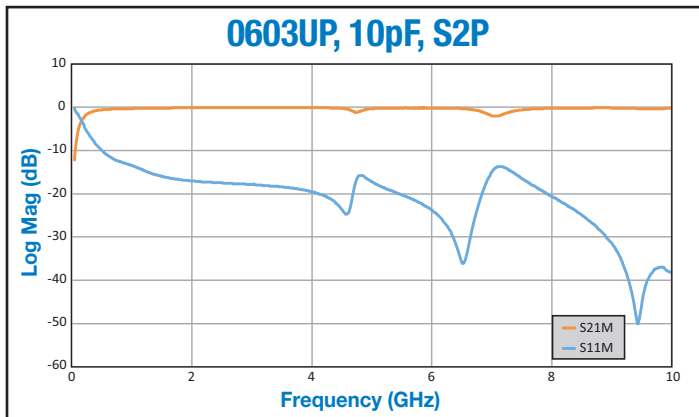
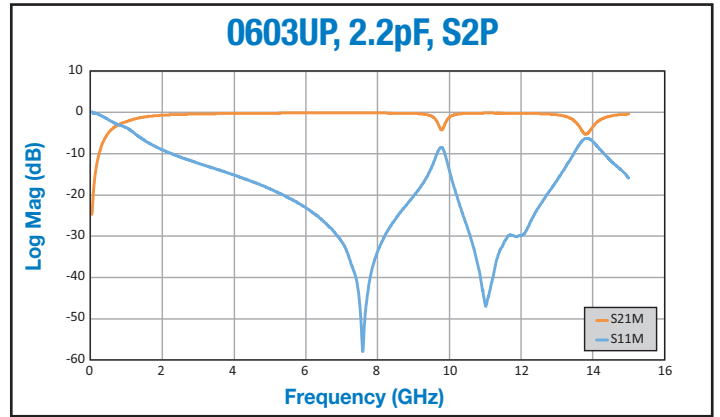
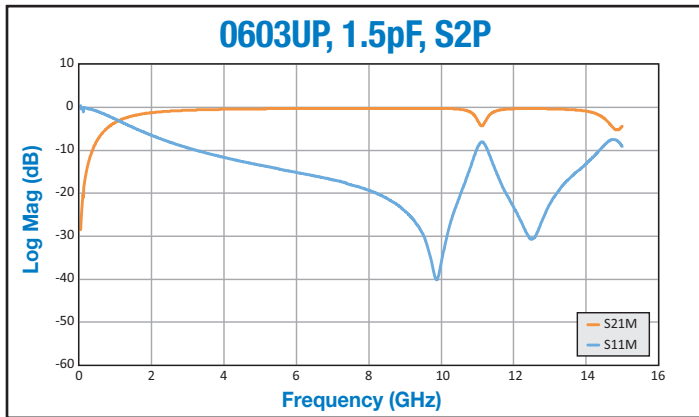
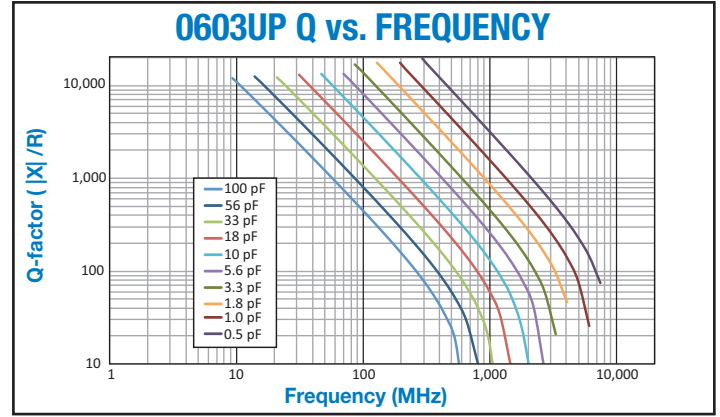
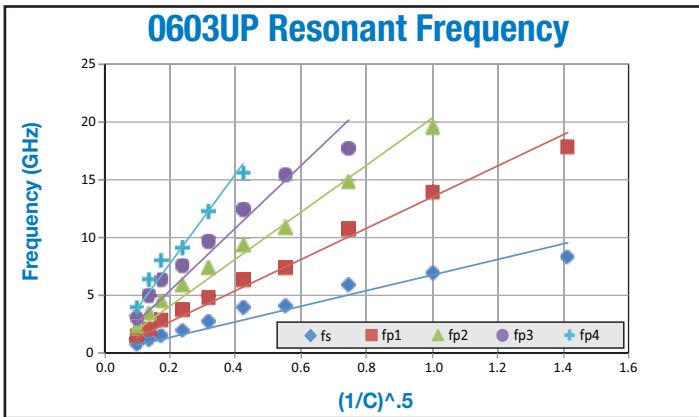
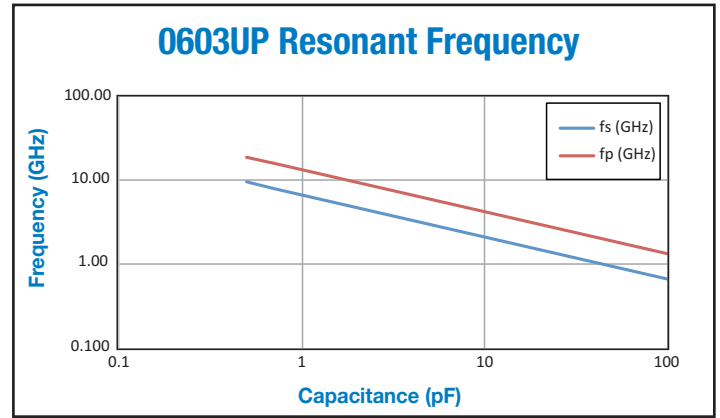
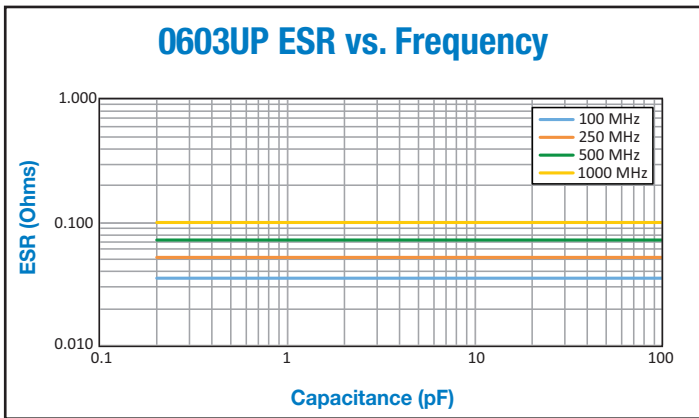
Presidio's UP capacitors can be upscreened to SPACE LEVEL testing. Consult the factory for details. Some voltage derating may apply.

COMMERCIAL PART NUMBER EXAMPLE (How to Order)

0603	UP	270	J	&	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

0603 PERFORMANCE CHARTS



Call factory for digital copy of the 06030UP S2P files.



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.