

# PRESIDIO ULTRA-PORCELAIN™ CAPACITORS

## SIZE 0805

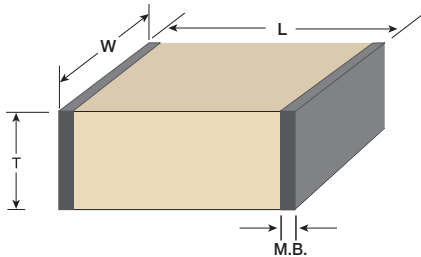
COMMERCIAL PART NUMBER	CAP. (pF)	TOL.	WVDC
0805UP0R1_&T1C-*	0.1	A,B	250
0805UP0R2_&T1C-*	0.2	A,B	250
0805UP0R3_&T1C-*	0.3	A,B,C	250
0805UP0R4_&T1C-*	0.4	A,B,C	250
0805UP0R5_&T1C-*	0.5	A,B,C	250
0805UP0R6_&T1C-*	0.6	A,B,C	250
0805UP0R7_&T1C-*	0.7	A,B,C	250
0805UP0R8_&T1C-*	0.8	A,B,C	250
0805UP0R9_&T1C-*	0.9	A,B,C	250
0805UP1R0_&T1C-*	1.0	A,B,C	250
0805UP1R1_&T1C-*	1.1	A,B,C,D	250
0805UP1R2_&T1C-*	1.2	A,B,C,D	250
0805UP1R3_&T1C-*	1.3	A,B,C,D	250
0805UP1R5_&T1C-*	1.5	A,B,C,D	250
0805UP1R6_&T1C-*	1.6	A,B,C,D	250
0805UP1R8_&T1C-*	1.8	A,B,C,D	250
0805UP2R0_&T1C-*	2.0	A,B,C,D	250
0805UP2R2_&T1C-*	2.2	A,B,C,D	250
0805UP2R4_&T1C-*	2.4	A,B,C,D	250
0805UP2R7_&T1C-*	2.7	A,B,C,D	250
0805UP3R0_&T1C-*	3.0	A,B,C,D	250
0805UP3R3_&T1C-*	3.3	A,B,C,D	250
0805UP3R6_&T1C-*	3.6	A,B,C,D	250

COMMERCIAL PART NUMBER	CAP. (pF)	TOL.	WVDC
0805UP3R9_&T1C-*	3.9	A,B,C,D	250
0805UP4R3_&T1C-*	4.3	A,B,C,D	250
0805UP4R7_&T1C-*	4.7	A,B,C,D	250
0805UP5R1_&T1C-*	5.1	A,B,C,D	250
0805UP5R6_&T1C-*	5.6	A,B,C,D	250
0805UP6R2_&T1C-*	6.2	A,B,C,D	250
0805UP6R8_&T1C-*	6.8	A,B,C,D	250
0805UP7R5_&T1C-*	7.5	A,B,C,D	250
0805UP8R2_&T1C-*	8.2	A,B,C,D	250
0805UP9R1_&T1C-*	9.1	A,B,C,D	250
0805UP100_&T1C-*	10	F,G,J,K	250
0805UP110_&T1C-*	11	F,G,J,K	250
0805UP120_&T1C-*	12	F,G,J,K	250
0805UP130_&T1C-*	13	F,G,J,K	250
0805UP150_&T1C-*	15	F,G,J,K	250
0805UP160_&T1C-*	16	F,G,J,K	250
0805UP180_&T1C-*	18	F,G,J,K	250
0805UP200_&T1C-*	20	F,G,J,K	250
0805UP220_&T1C-*	22	F,G,J,K	250
0805UP240_&T1C-*	24	F,G,J,K	250
0805UP270_&T1C-*	27	F,G,J,K	250
0805UP300_&T1C-*	30	F,G,J,K	250
0805UP330_&T1C-*	33	F,G,J,K	250

COMMERCIAL PART NUMBER	CAP. (pF)	TOL.	WVDC
0805UP360_&T1C-*	36	F,G,J,K	250
0805UP390_&T1C-*	39	F,G,J,K	250
0805UP430_&T1C-*	43	F,G,J,K	250
0805UP470_&T1C-*	47	F,G,J,K	250
0805UP510_&T1C-*	51	F,G,J,K	250
0805UP560_&T1C-*	56	F,G,J,K	250
0805UP620_&T1C-*	62	F,G,J,K	250
0805UP680_&T1C-*	68	F,G,J,K	250
0805UP750_&T1C-*	75	F,G,J,K	250
0805UP820_&T1C-*	82	F,G,J,K	250
0805UP910_&T1C-*	91	F,G,J,K	250
0805UP101_&T1C-*	100	F,G,J,K	250
0805UP111_&T1C-*	110	F,G,J,K	250
0805UP121_&T1C-*	120	F,G,J,K	250
0805UP131_&T1C-*	130	F,G,J,K	250
0805UP151_&T1C-*	150	F,G,J,K	250
0805UP161_&T1C-*	160	F,G,J,K	250
0805UP181_&T1C-*	180	F,G,J,K	250
0805UP201_&T1C-*	200	F,G,J,K	250
0805UP221_&T1C-*	220	F,G,J,K	250
0805UP241_&T1C-*	240	F,G,J,K	250

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

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

#### 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)
0.080 ± 0.010 (2.03 ± 0.25)	0.050 ± 0.010 (1.27 ± 0.25)	0.055 MAX (1.40 MAX)	0.005 to 0.030 (0.127 to 0.762)

#### 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

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

#### RoHS

#### 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.

### COMMERCIAL PART NUMBER EXAMPLE (How to Order)

0805	UP	101	J	&	T	1	C	A
Size	Dielectric (See Page 3)	Capacitance	Capacitance Tolerance	Voltage	Termination	Packaging	RoHS Compliant	Design-In Code (See Page 19)

# 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	<b>Pacific Rim</b>		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			<b>Other</b>	
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.**