

PRESIDIO ULTRA-PORCELAIN™ CAPACITORS

SIZE 3838

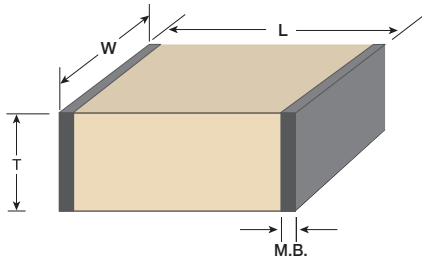
COMMERCIAL PART NUMBER	CAP. (pF)	TOL.	WVDC STD, EXT
3838UP1R0_ST1C-*	1.0	B,C,D	3.6K , 7.2K
3838UP1R1_ST1C-*	1.1	B,C,D	3.6K , 7.2K
3838UP1R2_ST1C-*	1.2	B,C,D	3.6K , 7.2K
3838UP1R3_ST1C-*	1.3	B,C,D	3.6K , 7.2K
3838UP1R5_ST1C-*	1.5	B,C,D	3.6K , 7.2K
3838UP1R6_ST1C-*	1.6	B,C,D	3.6K , 7.2K
3838UP1R8_ST1C-*	1.8	B,C,D	3.6K , 7.2K
3838UP2R0_ST1C-*	2.0	B,C,D	3.6K , 7.2K
3838UP2R2_ST1C-*	2.2	B,C,D	3.6K , 7.2K
3838UP2R4_ST1C-*	2.4	B,C,D	3.6K , 7.2K
3838UP2R7_ST1C-*	2.7	B,C,D	3.6K , 7.2K
3838UP3R0_ST1C-*	3.0	B,C,D	3.6K , 7.2K
3838UP3R3_ST1C-*	3.3	B,C,D	3.6K , 7.2K
3838UP3R6_ST1C-*	3.6	B,C,D	3.6K , 7.2K
3838UP3R9_ST1C-*	3.9	B,C,D	3.6K , 7.2K
3838UP4R3_ST1C-*	4.3	B,C,D	3.6K , 7.2K
3838UP4R7_ST1C-*	4.7	B,C,D	3.6K , 7.2K
3838UP5R1_ST1C-*	5.1	B,C,D	3.6K , 7.2K
3838UP5R6_ST1C-*	5.6	B,C,D	3.6K , 7.2K
3838UP6R2_ST1C-*	6.2	B,C,D	3.6K , 7.2K
3838UP6R8_ST1C-*	6.8	B,C,D	3.6K , 7.2K
3838UP7R5_ST1C-*	7.5	B,C,D	3.6K , 7.2K
3838UP8R2_ST1C-*	8.2	B,C,D	3.6K , 7.2K
3838UP9R1_ST1C-*	9.1	B,C,D	3.6K , 7.2K
3838UP100_ST1C-*	10	F,G,J,K,M	3.6K , 7.2K
3838UP110_ST1C-*	11	F,G,J,K,M	3.6K , 7.2K
3838UP120_ST1C-*	12	F,G,J,K,M	3.6K , 7.2K
3838UP130_ST1C-*	13	F,G,J,K,M	3.6K , 7.2K
3838UP150_ST1C-*	15	F,G,J,K,M	3.6K , 7.2K
3838UP160_ST1C-*	16	F,G,J,K,M	3.6K , 7.2K

COMMERCIAL PART NUMBER	CAP. (pF)	TOL.	WVDC STD, EXT
3838UP180_ST1C-*	18	F,G,J,K,M	3.6K , 7.2K
3838UP200_ST1C-*	20	F,G,J,K,M	3.6K , 7.2K
3838UP220_ST1C-*	22	F,G,J,K,M	3.6K , 7.2K
3838UP240_ST1C-*	24	F,G,J,K,M	3.6K , 7.2K
3838UP270_ST1C-*	27	F,G,J,K,M	3.6K , 7.2K
3838UP300_ST1C-*	30	F,G,J,K,M	3.6K , 7.2K
3838UP330_ST1C-*	33	F,G,J,K,M	3.6K , 7.2K
3838UP360_ST1C-*	36	F,G,J,K,M	3.6K , 7.2K
3838UP390_ST1C-*	39	F,G,J,K,M	3.6K , 7.2K
3838UP430_ST1C-*	43	F,G,J,K,M	3.6K , 7.2K
3838UP470_ST1C-*	47	F,G,J,K,M	3.6K , 7.2K
3838UP510_ST1C-*	51	F,G,J,K,M	3.6K , 7.2K
3838UP560_ST1C-*	56	F,G,J,K,M	3.6K , 7.2K
3838UP620_ST1C-*	62	F,G,J,K,M	3.6K , 7.2K
3838UP680_ST1C-*	68	F,G,J,K,M	3.6K , 7.2K
3838UP750_ST1C-*	75	F,G,J,K,M	3.6K , 7.2K
3838UP820_ST1C-*	82	F,G,J,K,M	3.6K , 7.2K
3838UP910_ST1C-*	91	F,G,J,K,M	3.6K , 7.2K
3838UP101_ST1C-*	100	F,G,J,K,M	3.6K , 7.2K
3838UP111_ST1C-*	110	F,G,J,K,M	3.6K , 5.0K
3838UP121_ST1C-*	120	F,G,J,K,M	3.6K , 5.0K
3838UP131_ST1C-*	130	F,G,J,K,M	3.6K , 5.0K
3838UP151_ST1C-*	150	F,G,J,K,M	3.6K , 5.0K
3838UP161_ST1C-*	160	F,G,J,K,M	3.6K , 5.0K
3838UP181_ST1C-*	180	F,G,J,K,M	3.6K , 5.0K
3838UP201_ST1C-*	200	F,G,J,K,M	3.6K , 5.0K
3838UP221_ST1C-*	220	F,G,J,K,M	3600
3838UP241_ST1C-*	240	F,G,J,K,M	3600
3838UP271_ST1C-*	270	F,G,J,K,M	3600
3838UP301_ST1C-*	300	F,G,J,K,M	3600

COMMERCIAL PART NUMBER	CAP. (pF)	TOL.	WVDC STD, EXT
3838UP331_ST1C-*	330	F,G,J,K,M	3600
3838UP361_ST1C-*	360	F,G,J,K,M	3600
3838UP391_ST1C-*	390	F,G,J,K,M	3600
3838UP431_QT1C-*	430	F,G,J,K,M	2500
3838UP471_QT1C-*	470	F,G,J,K,M	2500
3838UP511_QT1C-*	510	F,G,J,K,M	2500
3838UP561_QT1C-*	560	F,G,J,K,M	2500
3838UP621_QT1C-*	620	F,G,J,K,M	2500
3838UP681_QT1C-*	680	F,G,J,K,M	2500
3838UP751_QT1C-*	750	F,G,J,K,M	2500
3838UP821_9T1C-*	820	F,G,J,K,M	1000
3838UP911_9T1C-*	910	F,G,J,K,M	1000
3838UP102_9T1C-*	1000	F,G,J,K,M	1000
3838NPO122_9T1C-*	1200	F,G,J,K,M	1000
3838NPO152_9T1C-*	1500	F,G,J,K,M	1000
3838NPO182_9T1C-*	1800	F,G,J,K,M	1000
3838NPO222_9T1C-*	2200	F,G,J,K,M	1000
3838NPO272_6T1C-*	2700	F,G,J,K,M	500
3838NPO332_6T1C-*	3300	F,G,J,K,M	500
3838NPO392_6T1C-*	3900	F,G,J,K,M	500
3838NPO472_6T1C-*	4700	F,G,J,K,M	500
3838NPO562_4T1C-*	5600	G,J,K,M	200
3838NPO682_4T1C-*	6800	G,J,K,M	200
3838NPO822_4T1C-*	8200	G,J,K,M	200
3838NPO103_4T1C-*	10,000	G,J,K,M	200

Voltages in **BOLD** for Hi-Rel.

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



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
B	± 0.1 pF	< 10 pF
C	± 0.25 pF	< 10 pF
D	± 0.5 pF	< 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)
0.380 ± 0.020 (9.652 ± 0.508)	0.380 ± 0.020 (9.652 ± 0.508)	0.180 MAX (4.572 MAX)	0.010 to 0.040 (0.254 to 1.016)

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)

COMMERCIAL PART NUMBER EXAMPLE (How to Order)

3838	UP	101	J	S	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	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.