

PRESIDIO ULTRA-PORCELAIN™ CAPACITORS

SIZE 0805

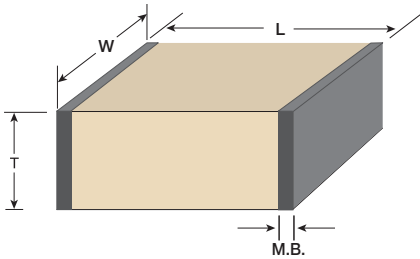
| COMMERCIAL PART NUMBER | CAP. (pF) | TOL. | WVDC |
|------------------------|-----------|---------|------|
| 0805UP0R1_ &T1C-* | 0.1 | A,B | 250 |
| 0805UP0R2_ &T1C-* | 0.2 | A,B | 250 |
| 0805UP0R3_ &T1C-* | 0.3 | A,B,C | 250 |
| 0805UP0R4_ &T1C-* | 0.4 | A,B,C | 250 |
| 0805UP0R5_ &T1C-* | 0.5 | 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 |
|------|------|------|------|
| 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

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

| 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 | 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.