

HIGH TEMPERATURE HIGH VOLTAGE CHIP CAPACITORS (HT)

XHT and NPO DIELECTRIC

Size	L Inches (mm)	W Inches (mm)	Thickness Max (T) Inches (mm)	Metalization Band (M.B.) Inches (mm)	WVDC*	DIELECTRIC (Maximum Capacitance)	
						NPO	XHT
1209	0.125 (3.18) ± 0.010 (0.25)	0.095 (2.41) ± 0.010 (0.25)	0.080 (2.03)	0.020 (0.51) ± 0.010 (0.25)	500V	2700pF	0.01µF
					1000V	390pF	1800pF
1514	0.150 (3.81) ± 0.010 (0.25)	0.140 (3.56) ± 0.010 (0.25)	0.140 (3.56)	0.020 (0.51) ± 0.010 (0.25)	500V	3900pF	0.047µF
					1000V	1800pF	0.018µF
					2000V	390pF	3300pF
					3000V	150pF	1500pF
1812	0.180 (4.57) ± 0.020 (0.51)	0.125 (3.18) ± 0.010 (0.25)	0.120 (3.05)	0.020 (0.51) ± 0.010 (0.25)	500V	6800pF	0.047µF
					1000V	2200pF	0.015µF
					2000V	270pF	1800pF
					3000V	120pF	390pF
1825	0.180 (4.57) ± 0.020 (0.51)	0.250 (6.35) ± 0.018 (0.46)	0.160 (4.06)	0.020 (0.51) ± 0.010 (0.25)	500V	0.012µF	0.15µF
					1000V	5600pF	0.027µF
					2000V	1000pF	6800pF
					3000V	470pF	1800pF
1918	0.190 (4.83) ± 0.013 (0.33)	0.180 (4.57) ± 0.013 (0.33)	0.150 (3.81)	0.020 (0.51) ± 0.010 (0.25)	500V	8200pF	0.082µF
					1000V	3900pF	0.022µF
					2000V	820pF	4700pF
					3000V	330pF	1800pF
2225	0.230 (5.84) ± 0.020 (0.51)	0.250 (6.35) ± 0.018 (0.46)	0.200 (5.08)	0.020 (0.51) ± 0.010 (0.25)	500V	0.015µF	0.27µF
					1000V	6800pF	0.068µF
					2000V	1500pF	0.012µF
					3000V	560pF	3900pF
2720	0.270 (6.85) ± 0.020 (0.51)	0.230 (5.84) max.	0.200 (5.08)	0.020 (0.51) ± 0.010 (0.25)	500V	0.012µF	0.25µF
					1000V	5600pF	0.027µF
					2000V	1500pF	6800pF
					3000V	560pF	3300pF

* WVDC = Working Voltage Direct Current

PLEASE CONTACT FACTORY FOR OTHER SIZES AND VOLTAGES
MANY OPTIONS ARE AVAILABLE

For sizes above 1812 Presidio recommends the chips be leaded (see "How to Order" on Page 10). During a thermal cycle, the leads help absorb the mechanical stress created by the CTE difference between the ceramic chip and the board.

HOW TO ORDER HT CHIPS

HT	1825	XHT	102	K	11	P	3	R	(F)
PREFIX	SIZE*	DIELECTRIC		TOLERANCE CODE		TERMINATION CODE	PACKAGING		DESIGN-IN CODE
HT	See Table Above	NPQ** NPO N2T** (175°C Max) X7R XHT		F = ± 1% ≥ 10pF G = ± 2% ≥ 10pF J = ± 5% ≥ 10pF K = ± 10% L = -10% / +20% M = ± 20% Z = + 80% / -20% P = +100% / -0%	NPQ** NPO ONLY ALL	NT9 = Ni/Sn/Pb Min. 4% Pb Q = 100% Sn over Ni NP8 = 15/85 Sn/Pb over Ni NG = Au over Ni H = 100% Gold P = Pd/Ag F = Polished Pd/Ag S = 100% Silver	1 = Reel, 7", plastic tape, unmarked 3 = Bulk, unmarked 5 = Waffle, unmarked A = Reel, 13", plastic tape, unmarked C = Reel, 7", paper, unmarked (0402 and 0603 only)		See Page 15
		CAPACITANCE CODE		VOLTAGE CODE				RoHS	
		Two significant figures followed by the number of zeros. Example: 100 = 10 pF 101 = 100 pF 102 = 1000 pF 103 = .01 µF		6 = 500 VDC 9 = 1000 VDC 11 = 2000 VDC 13 = 3000 VDC 14 = 4000 VDC 15 = 5000 VDC ***			Blank = Non-RoHS R = RoHS Compliant Only compatible with Q, P, F, NG, H, S terminations		

* Contact factory for other sizes
** Contact factory regarding NPQ and N2T dielectric
*** Contact factory for other voltages



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PRESIDIO COMPONENTS DESIGN-IN CODES

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 table below and add the appropriate code at the end of the part number. If you need assistance, please give us a call at **(858) 578-9390** or email **HT@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:
HT0805XHT473K1Q5R(F)

Add Design-In Code inside the parentheses at the end of the Presidio part number as shown above.