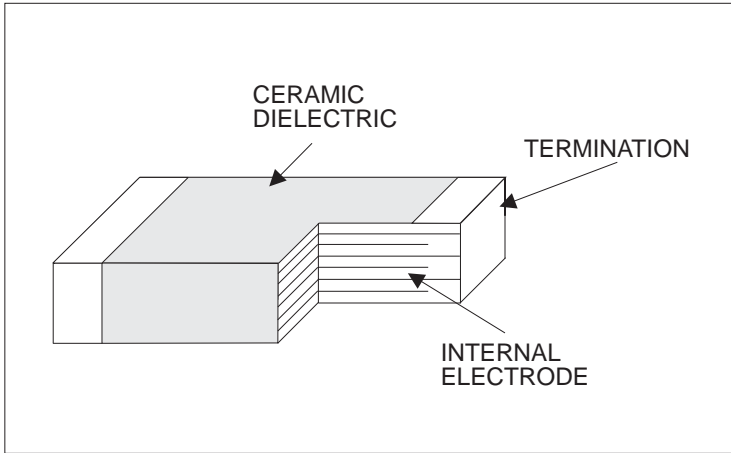




Ceramic Chip Capacitors - Z5U & Y5V Dielectric



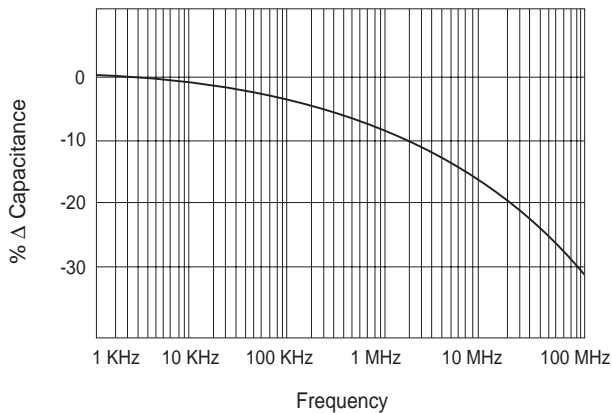
Application

The Hi-K (Z5U, Y5V) dielectrics deliver high capacitance density and are ideally suited for applications where space is at a premium, or as replacement for tantalum capacitors. Typical applications include use as by-pass or decoupling elements. Best performance is obtained at or near room Temperature, with low D.C. bias (<25 VDCW).

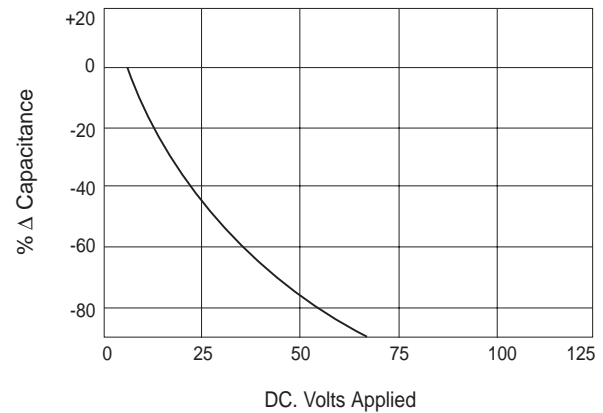
General Specification

- Operating temperature range -30°C ~ +85°C
- Capacitance Range: 1000pF ~ 1.0uF
- Capacitance Tolerance: ±20%, -20%, +80%
- Voltage Ratings, 25VDC, 50VDC, 100VDC (0603 Size: 16VDC, 50VDC, 100VDC)
- Dissipation Factor (1 KHz 0.5Vrms, 25 °C) 5% Max
- Insulation Resistance (rated voltage applied at 25°C) 10,000 megohms or 500 Ohm-Farads min
- Dielectric strength > 2.5X WV. DC.

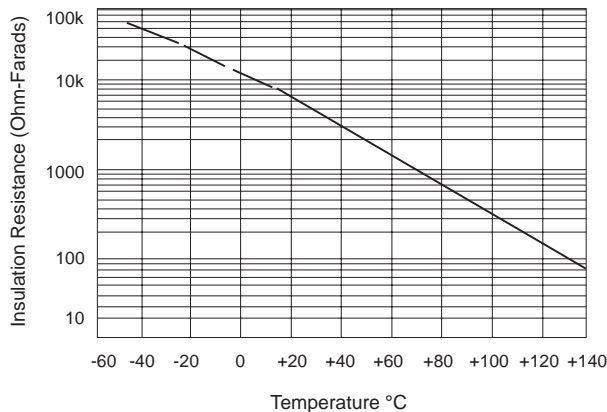
Δ C. vs. Frequency Coefficient



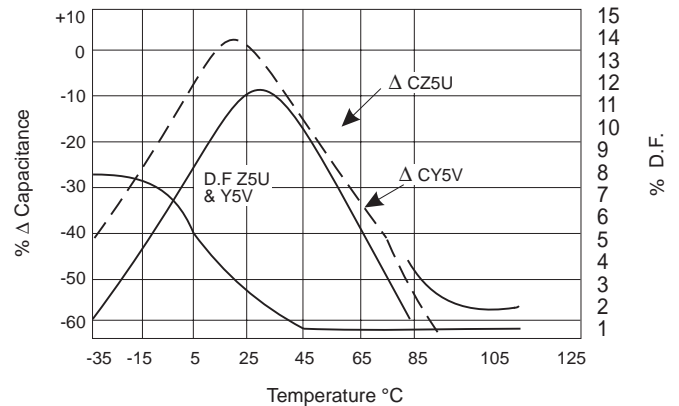
Δ C, vs. Voltage Coefficient



Insulation Resistance vs. Temp.



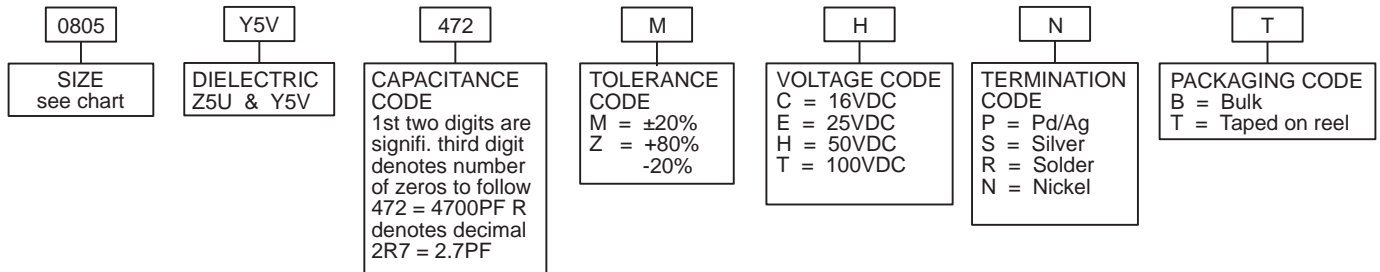
Δ C,D.F. vs. Temperature Coefficient





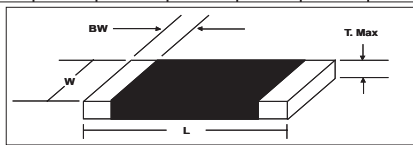
Ceramic Chip Capacitors - Z5U & Y5V Dielectric

Part Number System



SIZES AND VALUES AVAILABLE

1:1 STYLE		0603		0805		1206		1210		1812		2220						
* L (mm,in)		1.6	0.063	2.0	0.080	3.2	0.126	3.2	0.126	4.5	0.177	5.6	0.220					
* W (mm,in)		0.8	0.031	1.25	0.050	1.6	0.063	2.5	0.098	3.2	0.126	5.0	0.197					
T Max(mm,in)		0.9	0.035	1.25	0.050	1.25	0.050	1.5	0.060	1.9	0.075	2.0	0.079					
EB MIN(mm,in)		0.2	0.008	0.2	0.008	0.3	0.012	0.3	0.012	0.3	0.012	0.3	0.012					
CAP.(PF)	Tol.	WV (DC)	WV (DC)	WV (DC)	WV (DC)	WV (DC)	WV (DC)	WV (DC)	WV (DC)	WV (DC)	WV (DC)	WV (DC)	WV (DC)	WV (DC)	WV (DC)	WV (DC)	WV (DC)	WV (DC)
		16	25	50	25	50	100	25	50	100	25	50	100	25	50	100	25	50
390	M.Z.																	
470	M.Z.																	
560	M.Z.																	
680	M.Z.																	
820	M.Z.																	
1,000	M.Z.																	
1,200	M.Z.																	
1,500	M.Z.																	
1,800	M.Z.																	
2,200	M.Z.																	
2,700	M.Z.																	
3,300	M.Z.																	
3,900	M.Z.																	
4,700	M.Z.																	
5,600	M.Z.																	
6,800	M.Z.																	
10,000	M.Z.																	
15,000	M.Z.																	
22,000	M.Z.																	
33,000	M.Z.																	
47,000	M.Z.																	
68,000	M.Z.																	
100,000	M.Z.																	
150,000	M.Z.																	
220,000	M.Z.																	
330,000	M.Z.																	
470,000	M.Z.																	
680,000	M.Z.																	
1,000,000	M.Z.																	



* Tolerance +-0.01", 7% Whichever is greater

Gray for Z5U, Y5V Values Available
Black for Y5V