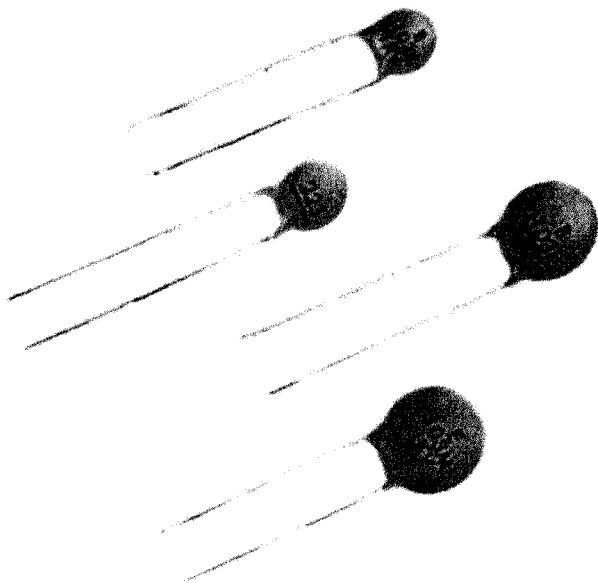


TYPE CT1, CT81 fixed ceramic dielectric capacitors



Features and usage

Type CTI capacitor is suited for by pass channel coupling or used in low frequency loss and discriminator circuit that the high stability of capacitance is not important.

The capacitor is round chip phenolic package seal round wire lead out of one direction and this capacitor is suitable for printed circuit installation.

Important specifications and test

- 1) Rated voltage(DC):50V (63V) ; 100V; 160V; 500V; 1KV
- 2) Nominal capacitance:
Values in compliance with IEC63 Norm E12 series
Test conditions:Test voltage: $1 \pm 0.2V_{rms}$
Test frequency:1KHz($CR > 100PF$)
1MHz($CR \leq 100PF$)
Test Temperature: $25 \pm 2^{\circ}C$
- 3) Capacitance tolerances:
 $\pm 5\%(J)$; $\pm 10\%(K)$; $\pm 20\%(M)$; $+80/-20\%(Z)$
- 4) Dissipation factor:Y5E.Y5P.Y5U.Z5U: $tg \delta \leq 3.5 \times 10^{-2}$
Y5V.Z5U: $tg \delta \leq 5 \times 10^{-2}$
Test conditions:Test voltage: $1 \pm 0.2V_{rms}$
Test frequency:1KHz($CR > 100PF$)
1MHz($CR \leq 100PF$)
Test Temperature: $25 \pm 2^{\circ}C$
- 5) Insulation resistance:
 $CR \leq 25nF:IR \geq 4000M \Omega$
 $CR > 25nF:IR \cdot CR \geq 100s$
Test conditions: $U_R < 100V$ Test voltage no large rated standard voltage 10V
 $100V \leq U_R < 500V$ Test voltage 100V
 $U_R \geq 500V$ Test voltage 500V
Insulation Resistance behind most test in one minute,
Inside Resistance of measurable modifier accord with
 $r \cdot CR \geq I_s$.charge current $\leq 50mA$.
- 6) Withstand Voltage:
 $2.5U_R(CT1), 1.5U_R + 500V(CT81)$ No breakdown or are one minute
Inside Resistance of Power source accord with $r \cdot CR \leq 1S$,
charge current $\leq 50mA$.

TYPE CT1、CT81 fixed ceramic dielectric capacitors

Temp characteristic table

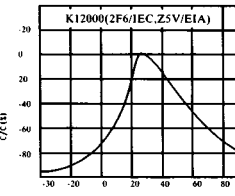
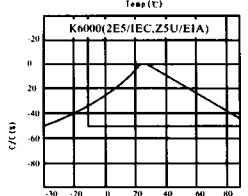
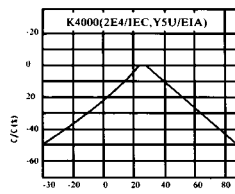
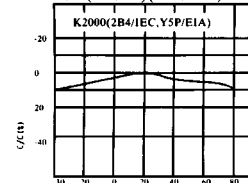
EIA character Code	Temp Range	Allowable Cap shift	IEC Code	MAR.Code
Y5E	-30℃ to +85℃	+4.7%	2A4	A
Y5P	-30℃ to +85℃	+10%	2B4	B
Y5U	-30℃ to +85℃	+22/-56%	2E4	D(orE)
Y5V	-30℃ to +85℃	+22/-82%	2F4	F
Z5U	+10℃ to +85℃	+22/-56%	2E6	E
Z5V	+10℃ to +85℃	+22/-82%	2F6	Z

Shape and Dimension table

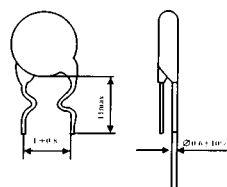
Dimension code	Dimension					Lead Style
	D	H	L	F	D	
05	5.0	3.5	1.5	2.5	0.5	a,b,c
06	6.3	3.5	1.5	5	0.5	a,b,c
07	7.0	3.5	1.5	5	0.5	a,b,c
08	8.0	3.5	1.5	5	0.5	a,b,c
09	9.5	4	1.5	5	0.5	a,b,c
10	10	6.3	1.5	7.5	0.6	a,b,c

Temp characteristic

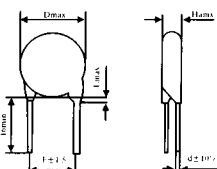
Class II/III(KK/KS)(CTI/CSL)



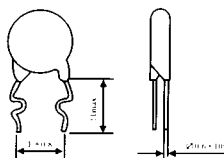
Outline Figure



Type(a)-kink Type



Type(b)-straight Lead



Type(c)-kink Type

Product specifications

Dimension code	Rated Voltage	Temperature performance coefficient											
		Y5E (A)		Y5P (B)		Y5U (DorE)		Y5V (F)		Z5U (E)		Z5V (Z)	
		Cap.sp	cap.tol	Cap.sp	cap.tol	Cap.sp	cap.tol	Cap.sp	cap.tol	Cap.sp	cap.tol	Cap.sp	cap.tol
05	50V (63V)	100-820	K,M	100-2200	K,M,Z	1000-3300	M,Z	1000-4700	Z	2200-3300	M,Z	3300-15000	Z
06		1000-1200		2700-3300		3900-5000		5600-10000		3900-6800		20000-22000	
07		1500-2200		3600-3900		5600-6800		10000-12000		8200-10000			
08				4700		8200-10000		15000-18000		12000-15000		33000-40000	
09				5600-6800		15000		22000					
10				8200-10000		22000				22000		47000	
05	500V	100-390	J,K,M	100-680	K,M,Z	470-820	M,Z	1000-1500	Z	470-820	M,Z	1000-1500	Z
06		430-620		820-1000		1000-1500		1800-2200		1800-2200		2200-3300	
07		680-820		1200-2200									
08		1000		2700		1800-3300		2700-5600		3300-4700		4700-6800	
09													
10				3300-4700		3900-5600		6800		5000-6800		1000	
08	1KV			100-560	K,M,Z	100-1200	Z	220-1800	Z			330-2200	Z
10				680-1000		1500-2200		2200-3900				2700-3900	
12				1200-1800		2700-3900		4700-6800				4700-6800	
14				2200-2700		4700-5600		8200-10000				8200-10000	
16				3300		6800-8200		12000					
18				3900-4700		10000		15000-18000					
20				5600		12000		22000					