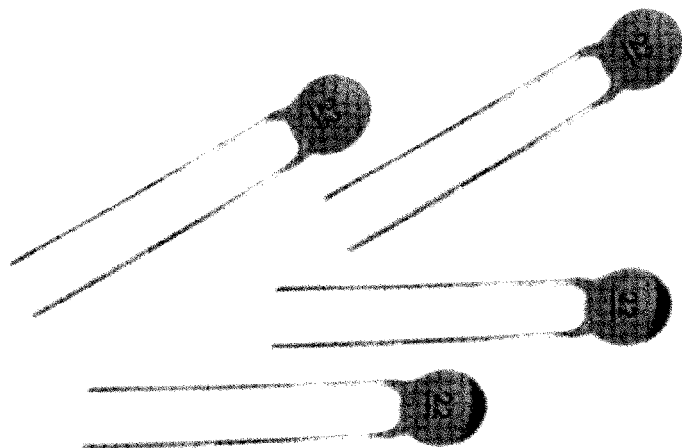




TYPE CC1, CC81 fixed ceramic dielectric capacitors



Features and usage

This capacitor features high capacitance stability, low dielectric loss and a great variety of temperature coefficients, suitable for resonant circuit where temperature compensation is required.

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) Climatic category: 55/085/21
 - 2) Rated voltage (DC): 50V (63V); 100V; 160V; 250V; 500V; 1KV
 - 3) Nominal capacitance:
values in compliance with IEC63, Norm E24 series.
Cr < 10PF Produced with Physical number.
Test conditions: Test voltage: $1 \pm 0.2V_{rms}$
Test frequency: 1MHz (Cr < 1000PF)
1KHz (Cr > 1000PF)
Test temperature: $25 \pm 2^\circ C$
 - 4) Capacitance tolerances:
 $\pm 0.25PF$ (C) . $\pm 0.5PF$ (D) . $\pm 5\%$ (J) . $\pm 0.10\%$ (K) .
 $\pm 20\%$ (M)
 - 5) Dissipation factor:
Cr > 50PF; $tg \delta \leq 15 \times 10^{-4}$
Cr < 50PF; $tg \delta \leq 1.5 (150/Cr + 7) \times 10^{-4}$
Test conditions: Test voltage: $1 \pm 0.2V_{rms}$
Test frequency: 1MHz (Cr < 1000PF)
1KHz (Cr > 1000PF)
Test temperature: $25 \pm 2^\circ C$
 - 6) Insulation resistance: $I_R \geq 10000M\Omega$
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 $r \cdot Cr \leq 1S$, Charge current $\leq 50mA$
 - 7) Withstand Voltage:
 $2.5U_R$ (CC₁) . $1.5U_R + 500V$ (CC₈₁) No breakdown or are one
minute Inside Resistance of power source accord
with $r \cdot Cr \leq 1S$, Charge current $\leq 50mA$
-



TYPE CC1, CC81 fixed ceramic dielectric capacitors

Temp coeffieient table

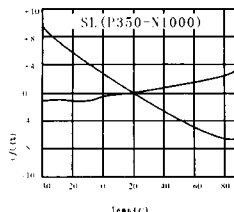
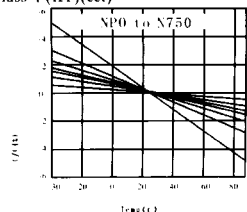
IEC Code	TC.PPM/C	Intl.code	TC.col.code	MAR.Code
CH	0 ± 60	NP0	Black	C
NH	47 ± 60	N47	Light blue	N
LH	80 ± 60	N80	Red	L
PH	-150 ± 60	N150	Orange	P
RH	-220 ± 60	N220	Yellow	R
SH	-330 ± 60	N330	Green	S
TH	-470 ± 60	N470	Blue	T
UJ	-750 ± 120	N750	Purple	U
VK	-1500 ± 250	N1500	Orange+Orange	V
SL	$+140-1000$		Grey	SL

Shape and Dimension table

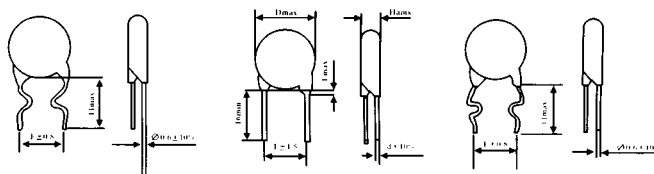
Dimension code	(mm) Dimension					Lead Style
	D	H	L	F	D	
04	4.5	3.5	1.5	2.5	0.5	a,b,c
05	5.0	3.5	1.5	2.5	0.5	a,b,c
06	6.3	3.5	1.5	5	0.5	a,b,c
07	7.0	3.5	1.5	5	0.5	a,b,c
08	8.0	3.5	1.5	5	0.5	a,b,c
09	9.5	4	1.5	5	0.5	a,b,c
10	10	6.3	4	7.5	0.6	a,b,c
12	12.5	6.3	4	10	0.8	a,b,c
16	16	8	4	10	0.8	a,b,c
20	20	8	4	15	0.8	a,b,c

Temp coeffieient

Class I (KT)(cc1)



Outline Figure



Type(a)-kink Type

Type(b)-straight Lead

Type(c)-kink Type

Product specifications

Dimension code	Rated Voltage	Cap.Tem.coeff.												
		NPO (C)		N47 (N)		N80 N150N220 (L) (P) (R)			N330N470 (S) (T)		N750N (U) (V)		SL	
		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 (63)V	1-9.1	C,D	1-9.1	C,D	1-9.1	C,D	1.8-9.1	D	1-9.1	D			
05		10-51	J.K.M	10-51	J.K.M	10-51	J.K.M	10-68	J.K.M	10-220	J.K.M			
06		56-68		56-75		56-82		75-150		240-270				
07		75-91		82-100		91-120		160-180		300				
08		100-120		110-150		130-180		200-270		330-470				
09				160-180		200-220								
10		150-220		200-220		240		300-390		500-680				
05	500V	1-9.1	C,D	1-9.1	C,D	1-9.1	C,D	1.8-9.1	D	1-9.1	D			
05		10-15	J.K.M	10-18	J.K.M	10-18	J.K.M	10-39	J.K.M	10-68	J.K.M			
06		16-22		20-27		20-30		43-56		75-100				
07		24-33		33-56		33-56		62-91		110-160				
08		36-47		62-82		62-82		100-120		180-200				
10		51-82		91-120		91-120		130-240		220-430				
08	1KV	4.7-15	D,J.K	12-18	J.K.M		J.K.M	15-47	J.K.M	2.3-43	D,J.K			
10		16-27	20-30			51-91		47-82						
12		30-43	33-51			100-130		91-110						
16		47-100	56-110			150-320		120-270						
20		110-150	120-180			360-510		300-430						