

MULTILAYER CHIP CERAMIC CAPACITOR

Operating Temp. Range.	-25°C to +85°C
Capacitance	在 1KHz±20% , 1.0±0.2Vrms Within the Specified Tolerance at 1KHz±20% , 1.0±0.2Vrms
Capacitance Tolerance	K: ±10%, M: ±20%, Z: +80-20%
Dissipation Factor(DF)	DF≤2.0% at 1KHz±20% , 1.0±0.2Vrms
Rated Voltage(U _R)	≥7.5KV
Dielectric Withstanding Voltage	1.5U _R for 2 to 5 S (Charge /Discharge current≤50mA)
(IR)Insulation Resistance	10000MΩ min at 500VDC and 1 minute electrification

Flame-resistant insulation coating applied

For High voltage DC power supply application

General Specification

Capacitance Specification

Rated Voltage	Capacitance (pF)			Diameter (mm)			
	Temperature Characteristics			D	Tmax	F±1.0	d±0.05
DC	Y5P (B)	Y5U (E)	Y5V (F)				
7.5KV (8KV)	100~220			07	8.0	10.0	0.65
	330			08			
	470			10			
	680	1000		12			0.8
	1000	1500		14			
	1500	2200		16			
	2200			18			
10KV	100~220			08	9.0	12.7	0.65
	330~470			10			
	680	1000		12			
	1000	2200		14			0.8
	1500			16			
15KV	100~220			09	10.0	12.7	0.65
	330			10			
	470			12			
	680	1000	2200	14			0.8
	820	1500	3300	16			
	1000	2200	4700	18			

7.5KV, 10KV, 15KV

NOTE: More CT81 super high voltage capacitors are available upon request except for those list above.

With special constructive, small volume, and high reliability. The products are applied to Computers and various kinds of electronic equipments.

Part Numbering System

CT4

0805

X7R

104

K

50V

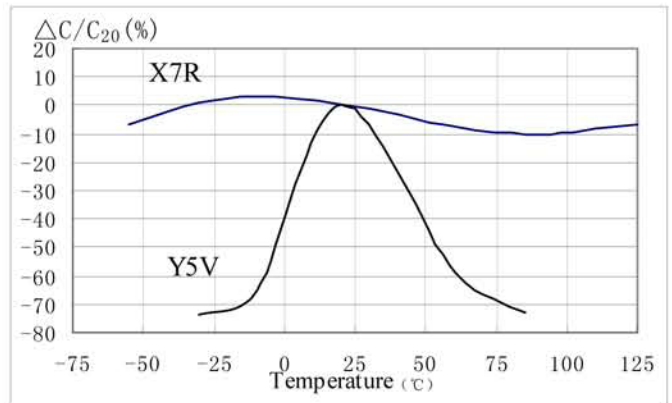
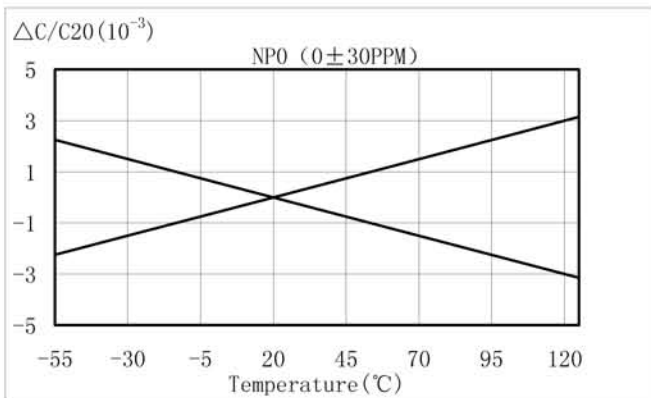
T

<p>CC4: 1 Class 1 radial leads MLC</p> <p>CT4: 2 Class 2 radial leads MLC</p>	<table border="1"> <tr> <td>0805</td> <td>0.08×0.05</td> </tr> <tr> <td>1206</td> <td>0.12×0.06</td> </tr> <tr> <td>1210</td> <td>0.12×0.10</td> </tr> <tr> <td>1812</td> <td>0.18×0.12</td> </tr> <tr> <td>2225</td> <td>0.22×0.35</td> </tr> <tr> <td>3035</td> <td>0.30×0.35</td> </tr> </table>	0805	0.08×0.05	1206	0.12×0.06	1210	0.12×0.10	1812	0.18×0.12	2225	0.22×0.35	3035	0.30×0.35	<table border="1"> <tr> <td colspan="2">Dielectric</td> </tr> <tr> <td colspan="2">NP0</td> </tr> <tr> <td colspan="2">X7R</td> </tr> <tr> <td colspan="2">Y5V</td> </tr> </table>	Dielectric		NP0		X7R		Y5V		<table border="1"> <tr> <td colspan="2">(pF) Nominal Capacitance</td> </tr> <tr> <td>102</td> <td>1000</td> </tr> <tr> <td>5R0</td> <td>5.0</td> </tr> </table>	(pF) Nominal Capacitance		102	1000	5R0	5.0	<table border="1"> <tr> <td colspan="2">Tolerance</td> </tr> <tr> <td>C</td> <td>±0.25pF</td> </tr> <tr> <td>D</td> <td>±0.50pF</td> </tr> <tr> <td>J</td> <td>±5%</td> </tr> <tr> <td>K</td> <td>±10%</td> </tr> <tr> <td>M</td> <td>±20%</td> </tr> <tr> <td>S</td> <td>+50-20%</td> </tr> <tr> <td>Z</td> <td>+80-20%</td> </tr> </table>	Tolerance		C	±0.25pF	D	±0.50pF	J	±5%	K	±10%	M	±20%	S	+50-20%	Z	+80-20%	<table border="1"> <tr> <td colspan="2">(V) Rated voltage</td> </tr> <tr> <td colspan="2">25</td> </tr> <tr> <td colspan="2">50</td> </tr> <tr> <td colspan="2">100</td> </tr> </table>	(V) Rated voltage		25		50		100		<table border="1"> <tr> <td colspan="2">package stype</td> </tr> <tr> <td>T</td> <td>Aammo Tape</td> </tr> <tr> <td>B</td> <td>BULK</td> </tr> </table>	package stype		T	Aammo Tape	B	BULK
0805	0.08×0.05																																																													
1206	0.12×0.06																																																													
1210	0.12×0.10																																																													
1812	0.18×0.12																																																													
2225	0.22×0.35																																																													
3035	0.30×0.35																																																													
Dielectric																																																														
NP0																																																														
X7R																																																														
Y5V																																																														
(pF) Nominal Capacitance																																																														
102	1000																																																													
5R0	5.0																																																													
Tolerance																																																														
C	±0.25pF																																																													
D	±0.50pF																																																													
J	±5%																																																													
K	±10%																																																													
M	±20%																																																													
S	+50-20%																																																													
Z	+80-20%																																																													
(V) Rated voltage																																																														
25																																																														
50																																																														
100																																																														
package stype																																																														
T	Aammo Tape																																																													
B	BULK																																																													

General Specification

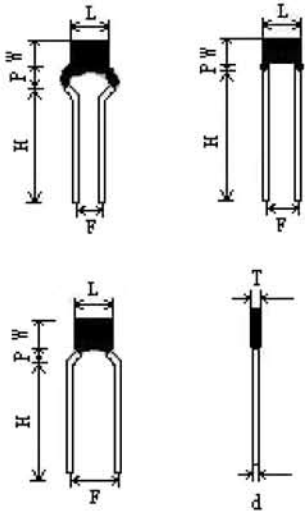
Operating Temp. Range.	NP0 X7R : -55°C to +125°C Y5V: -30°C to +85°C
Capacitance	NP0: Within the Specified Tolerance at 1MHz±20% , 1.0±0.2Vrms X7R: 1KHz±20% , 1.0±0.2Vrms Y5V: 1KHz±20% , 0.3±0.2Vrms
Dissipation Factor(DF)	NP0: DF≤0.15% at 1MHz±20% , 1.0±0.2Vrms X7R: DF≤2.5% at 1KHz±20% , 1.0±0.2Vrms Y5V: DF≤3.5% at 1KHz±20% , 0.3±0.2Vrms
Dielectric Withstanding Voltage	2.5U _R for 2 to 5 S (Charge /Discharge current≤50mA)
(IR)Insulation Resistance	NP0: 10000MΩ min at rated voltage and 1 minute electrification X7R: 4000MΩ min or R*C≥100S at rated voltage and 1 minute electrification Y5V: 4000MΩ min or R*C≥100S at rated voltage and 1 minute electrification

Temperature Characteristics (T.C.)



MULTILAYER CHIP CERAMIC CAPACITOR

Relationship with dimension, capacitance and rated voltage



Size code	Dimensions (mm)					Rated Voltage (v)	Capacitance (pF)		
	F±0.5	H±1	l _{max}	w _{max}	T _{max}		NPO	X7R	Y5V
0805	2.5	5.0	4.2	3.8	3.8	25	0R5-332	221-105	103-105
	5.0					50	0R5-222	221-105	103-684
	7.5					100	0R5-102	221-683	
1206	5.0	10.0	5.0	4.5	3.8	25	0R5-682	221-105	103-125
	7.5					50	0R5-472	221-105	103-105
						100	0R5-392	221-683	
1210	5.0	10.0	7.6	5.5	3.8	25	561-103	102-334	104-155
	7.5					50	561-682	102-105	104-155
						100	561-472	102-104	
1812	5.0	10.0	8.5	8.5	3.8	25	102-153	103-474	154-335
						50	102-153	103-334	154-325
						100	102-682	103-224	
2225	7.5	10.0	10.0	9.5	4.2	25	102-223	103-105	684-475
						50	102-223	103-105	684-335
						100	102-103	103-474	
3035	7.5	10.0	12.5	10.5	4.2	25	102-104	103-225	105-106
						50	102-473	103-225	105-685
						100	102-332	103-105	