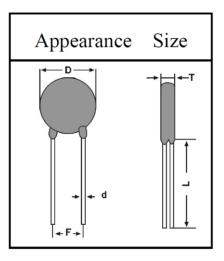


### **Ceramic Capacitor CCH series**

• Appearance, Size and Structure



	Specification		L	D	т	F	d	
PN	Volt	Cap.	Material	(mm)	Max(mm)	Max(mm)	(mm)	(mm)
CCH-100P/1000V		100 pF	SL	19 Min	7	2.5	5±0.5	0.45±0.05
CCH-1N/1000V	1147	1 nF	Y5P	25 Min	7	3.5	5± 0.5	0.5±0.05
CCH-2N2/1000V	1kV	2,2 nF	Y5P	25 Min	9.5	3.5	5±0.5	0.5±0.05
CCH-4N7/1000V		4,7 nF	Y5P	25 Min	12.5	5	3	0.5±0.05

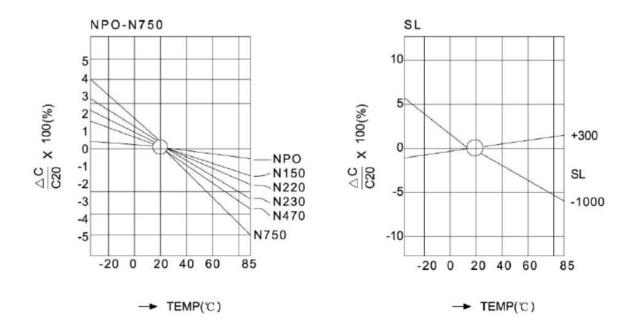
PN		Specification		L	D	Т	F	d
PN	Volt	Cap.	Material	(mm)	Max(mm)	Max(mm)	(mm)	(mm)
CCH-100P/2000V		100 pF	YL	25 Min	7	4	5±0.5	0.6±0.05
CCH-10N/2000V		10 nF	Y5V	25 Min	11.5	4.5	7.5±0.5	0.6±0.05
CCH-1N/2000V	2kV	1 nF	Y5P	25 Min	8.5	4	5±0.5	0.6±0.05
CCH-1N5/2000V		1,5 nF	Y5P	25 Min	10	4	7.5±0.5	0.6±0.05
CCH-470P/2000V		470 pF	Y5P	25 Min	7	4	5±0.5	0.6±0.05

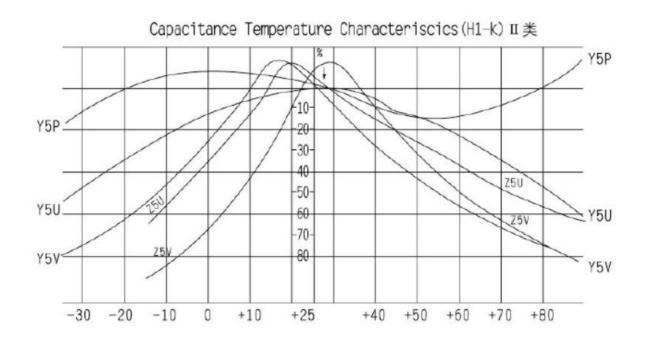
PN	Specification		L	D	Т	F	d	
PN	Volt	Cap.	Material	(mm)	Max(mm)	Max(mm)	(mm)	(mm)
CCH-100P/3000V		100 pF	Y5P	25 Min	7	4	7.5±0.5	0.6±0.05
CCH-10N/3000V		10 nF	Y5V	25 Min	15	5.5	7.5±0.5	0.6±0.05
CCH-150P/3000V		150 pF	Y5P	25 Min	8	4.5	7.5±0.5	0.6±0.05
CCH-1N/3000V		1 nF	Y5P	25 Min	11	5	7.5±0.5	0.6±0.05
CCH-1N5/3000V	3kV	1,5 nF	Y5P	25 Min	10	4.5	7.5±0.5	0.6±0.05
CCH-220P/3000V	360	220 pF	Y5P	25 Min	8	4.5	7.5±0.5	0.6±0.05
CCH-2N2/3000V		2,2 nF	Y5P	25 Min	13	7.5	4±0.5	0.6±0.05
CCH-3N3/3000V		3,3 nF	Y5P	25 Min	14.5	7.5	4±0.5	0.6±0.05
CCH-470P/3000V		470 pF	Y5P	25 Min	9	4.5	7.5±0.5	0.6±0.05
CCH-4N7/3000V		4,7 nF	Y5U	25 Min	13	5.5	7.5±0.5	0.6±0.05

PN	Specification		L	D	Т	F	d	
PN	Volt	Cap.	Material	(mm)	Max(mm)	Max(mm)	(mm)	(mm)
CCH-100P/6000V		100 pF	Y5P	25 Min	8	4	10±0.5	0.6±0.05
CCH-1N/6000V		1 nF	Y5P	25 Min	13	5.5	10±0.5	0.6±0.05
CCH-220P/6000V	6kV	220 pF	Y5P	25 Min	8	4	10±0.5	0.6±0.05
CCH-470P/6000V		470 pF	Y5P	25 Min	10	4.5	10±0.5	0.6±0.05
CCH-4N7/6000V		4,7 nF	Y5V	25 Min	13	5.5	10±0.5	0.6±0.05

#### Capacitance and Temperature Curve

Material	Temperature Range	Capacitance Range
NPO	−25°C <b>~</b> +85°C	0±60PPM/°C
SL	−25°C <b>~</b> +85°C	+300~-1000PPM/°C
Y5P	−25°C <b>~</b> +85°C	+10%~-10%
Y5U	−25°C <b>~</b> +85°C	+22% <b>~</b> -56%
Y5V	-25℃ <b>~</b> +85℃	+22%~-82%





#### According to: Specification

GB/T 2693	《Fixed capacitors for use in electronic equipment Part1: Generic specification》
GB/T 5966	《Fixed capacitors for use in electronic equipment Part8: Sectional specification
	Fixed capacitors of ceramic dielectric, Class $I\rangle$
GB/T 5968	《Fixed capacitors for use in electronic equipment Part8: Sectional specification
	Fixed capacitors of ceramic dielectric, Class $ {f I}   angle $
GB 11305	«Fixed capacitors for use in electronic equipment Sectional specification Fixed capacitors of coromic dielectric Class Π.
	Fixed capacitors of ceramic dielectric, Class ${ m I\hspace{1em}I}$ $>$
GB/T 14472	《Fixed capacitors for use in electronic equipment Part14: Sectional specification
	Fixed capacitors for electromagnetic interference suppression and connection to the supply mains $\gg$
GB2828	《Sampling procedures and tables for lot-by-lot inspection byattributes》
GB2829	«Sampling procedures and tables for periodic inspection byattributes»

#### Quality Assurance(OQC)and Test

Check item	Chec	k level
(lot)	IL	AQL
<ol> <li>Appearance</li> <li>Size</li> </ol>	S4	2.5
<ol> <li>Capacitance</li> <li>DF</li> <li>Voltage proof</li> <li>Insulation resistance</li> </ol>	П	0.25
1. Solder ability of leads	S3	2.5



#### Specification and Testing Method

ltem	Specification	Testing Method
1.Operating Temperature Range	-25 <b>~</b> +85℃	
2.Capacitance	K : ±10% M : ±20% Z : +80%/-20%	Temperature : 25±2°C Voltage : 1.0±0.2Vrms Frequency : 1.0±0.2KHz
3.DF	Y5P:2.5%max Y5U:2.5%max Y5V:5.0%max	Temperature : 25±2°C Voltage : 1.0±0.2Vrms Frequency : 1.0±0.2KHz
4.Insulation Resistance(IR)	5000MΩmin	Apply voltage : U=500V Apply current : I≤0.05A Test time : 1min
5.Dielectric Strength	Nofailure	Ratedvoltage : UR>500V, TestvoltageU=1.5UR Applycurrent : I≤0.05A, Testtime : 1min
6.Temperature Characteristic	Y5P : +10%~−10% Y5U : +22%~−56% Y5V : +22%82% NPO : 0±60PPM/°C SL : +30-1000PPM/°C	The capacitance measurement shall be made at each step :Before Test : Set the capacitor for 1 hour at 85±2°C, after24±2 hour at room temperature, then can be measured.StepTemperature 1120±2°C2-25±3°C320±2°C485±2°C520±2°C

Item	Specification	Tes	ting Method
	Appearance	No marked defect	The capacitor shall firmly be soldered to the suprorting terminal and vibration which
7.Vibration resistance	Capacitance	Y5P : ∆C/C≤10% Y5V : ∆C/C≤30% Y5U : ∆C/C≤20%	is10HZ to55HZ in the vibration frequency range 1.5mm in total amplitude and about 1min.in the rate of vibration
	DF	Y5P : 5.0%max Y5V : 5.0%max Y5U : 5.0%max	change from 10HZ to 55HZ and back to 10HZ is applied for a total of 6 hours, 2hours each in there mutually perpendicular direction.
	Appearance	No marked defect	The lead wire shall be immersed into the melted solder of 260+50C up to about
8.Soldering effect	Capacitance	Y5P : ΔC/C≤10% Y5V : ΔC/C≤30% Y5U : ΔC/C≤20%	1.5to 2.0mm from the main body for3.5+0.5sec. Pre- treatment : capacitor shall be stored 1hour at 85±2°C after at normal temperature
	Dielectric strength (between lead wires)	No failure	for24±2 hour before initial measurements. Post-treatment : capacitor shall be measured after 24±2 hours at normal temperature.
	Appearance	No marked defect	Set the capacitor for 500 hours at 40+20C in 90 to 95%RH
9.Humidity (under steady state)	Capacitance change	Y5P : ∆C/C≤10% Y5V : ∆C/C≤30% Y5U : ∆C/C≤20%	Pre-treatment : capacitor shall be stored 1hour at 85±2°C after at normal
	DF	Y5P : 5.0%max Y5V : 5.0%max Y5U : 5.0%max	temperature for24±2 hour before initial measurements. Post-treatment : capacitor shall be measured after 24±2
	Insulation Resistance (IR)	500MΩmin	hours at normal temperature

Item	Specification	Test	ing Method
	Appearance	No marked defect	Apply rated voltage for 500
	Capacitance change	Y5P : ΔC/C≤10% Y5V : ΔC/C≤30% Y5U : ΔC/C≤20%	hours at 40±2°C in 90 to 95%RH Pre-treatment : capacitor shall be stored 1hour at 85±2°C after at normal
10. Humidity loading	DF	Y5P : 5.0%max Y5U : 5.0%max Y5V : 7.0%max	temperature for24±2 hour before initial measurements. Post-treatment : capacitor shall be measured after 24±2
	Insulation Resistance (IR)	1000MΩmin	hours at normal temperature.
	Appearance	No marked defect	Apply 150% of the rated
	Capacitance change	Y5P:ΔC/C≤10% Y5V:ΔC/C≤30% Y5U:ΔC/C≤20%	voltage for 1000 hours at 85±2°C Pre-treatment : capacitor shall be stored 1hour at
11.LifeTest	DF	Y5P : 5.0%max Y5U : 5.0%max Y5V : 7.5%max	85±2°C after at normal temperature for24±2 hour before initial measurements. Post-treatment : capacitor shall be measured after 24±2
	Insulation Resistance (IR)	1000MΩmin	hours at normal temperature.
12.Strength of lead	Dielectric strength Le		As a figure fix the body of capacitor, apply a tensile weight gradually to each lead in the radial direction of capacitor up to 10N and keep it for 10±15 sec.
	Bending	Capacitor shall not be broken.	Each lead wire shall be subjected to 5N weight and then ±45°bend twice.
	Turn back strength		Each lead wire shall be turn back twice at 180°.
13.Solderability of leads	Lead wire shall be sold 95% of the circum	The lead wire of a capacitor shall be dipped into flax and then into molten solder of 235±5°C for 2±0.5sec.	

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