Safety Standard Certified Ceramic Capacitors-CE Series (Class Y2) Data Sheet

Feature

■Wide capacitance range from 100pF to 10000pF

■Operating Temperature: -40℃～125℃

■Storage Temperature: 15℃~35℃

■Fix capacitors Y2 for electromagetic interference suppression and connection to the supply mains has high dielectric coefficient ceramic dielectric and flame retardant epoxy resin package

Applications

■Can be used for power supply noise suppression circuit in cross connection and bypass.It is a primary and secondary coupling X/Y capacitor used as AC line filter and switching power supply and AC converter

Applicable Standard

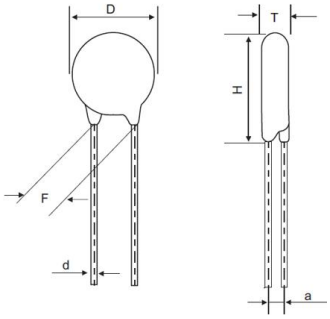
Country	Certification Body	Report Reference	Certificate No.	Capacitance Range	Rated Voltage
USA Canada	UL CUL	UL60384-14	E208107	100～10000pF	X1Y2: 250VAC
Korea	KTL	K60384-14 (2015)	SU03031-7001B	100～10000pF	
China	CQC	GB/T6346.14-2023 IEC60384-14:2013+AMD1:2016	CQC19001213202	100～10000pF	
Germany	VDE	DIN EN IEC60384-14:2024; EN IEC60384-14:2023	40025748	100～10000pF	
EU	ENEC	DIN EN IEC60384-14:2024; EN IEC60384-14:2023	40025748	100～10000pF	

Part numbering on request.

Specifications

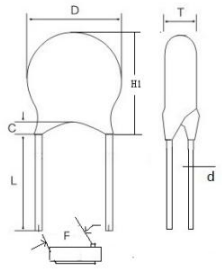
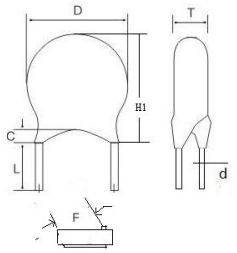
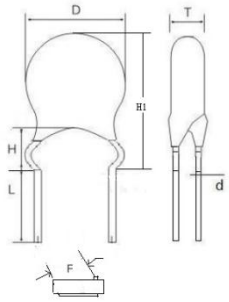
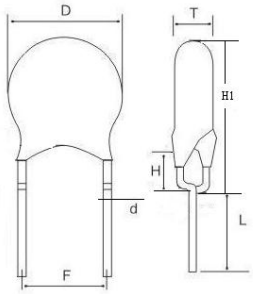
Capacitance and Dissipation factor testing condition	25℃、1KHz、1Vrms
Dissipation Factor(tanδ)	≤2.5%
Rated Voltage	250VAC
Withstand Voltage	2500VAC
Insulation Resistance (I.R.)	IR≥10000MΩ
Temperature Characteristic	Y5P、Y5U、Y5V

Dimensions (mm) and Approval

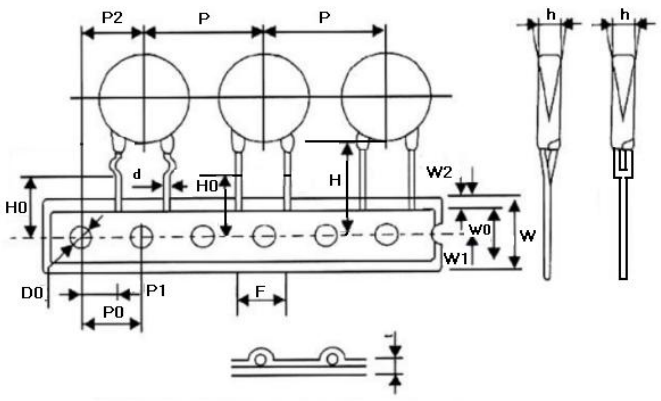


Part No.	Size (mm)				Approval				
	D Max.	T Max.	F±0.5	d±0.05	CQC	VDE	cUL (Canada)	KTL	ENEC
Y2-Y5P-101K	7.0	4.0	7.5	0.6	√	√	√	√	√
Y2-Y5P-151K	7.0	4.0	7.5	0.6	√	√	√	√	√
Y2-Y5P-221K	7.0	4.0	7.5	0.6	√	√	√	√	√
Y2-Y5P-331K	7.0	4.0	7.5	0.6	√	√	√	√	√
Y2-Y5P-471K	7.0	4.0	7.5	0.6	√	√	√	√	√
Y2-Y5P-681K	8.5	4.0	7.5	0.6	√		√	√	
Y2-Y5U-681M	7.0	4.0	7.5	0.6	√		√	√	
Y2-Y5U-102M	7.0	4.0	7.5	0.6	√	√	√	√	√
Y2-Y5U-152M	9.0	4.0	7.5	0.6	√	√	√	√	√
Y2-Y5U-222M	10.0	4.0	7.5	0.6	√	√	√	√	√
Y2-Y5U-332M	12.0	4.0	7.5	0.6	√	√	√	√	√
Y2-Y5U-472M	14.0	4.5	7.5 / 10.0	0.65	√	√	√	√	√
Y2-Y5U-103M	16.5	4.5	7.5 / 10.0	0.65	√	√	√	√	√
Y2-Y5V-152M	7.0	4.0	7.5	0.6	√	√	√	√	√
Y2-Y5V-222M	8.0	4.0	7.5	0.6	√	√	√	√	√
Y2-Y5V-332M	9.0	4.0	7.5	0.6	√	√	√	√	√
Y2-Y5V-472M	10.0	4.0	7.5	0.6	√	√	√	√	√
Y2-Y5V-103M	14.0	4.5	7.5 / 10.0	0.65	√	√	√	√	√

Lead Configuration

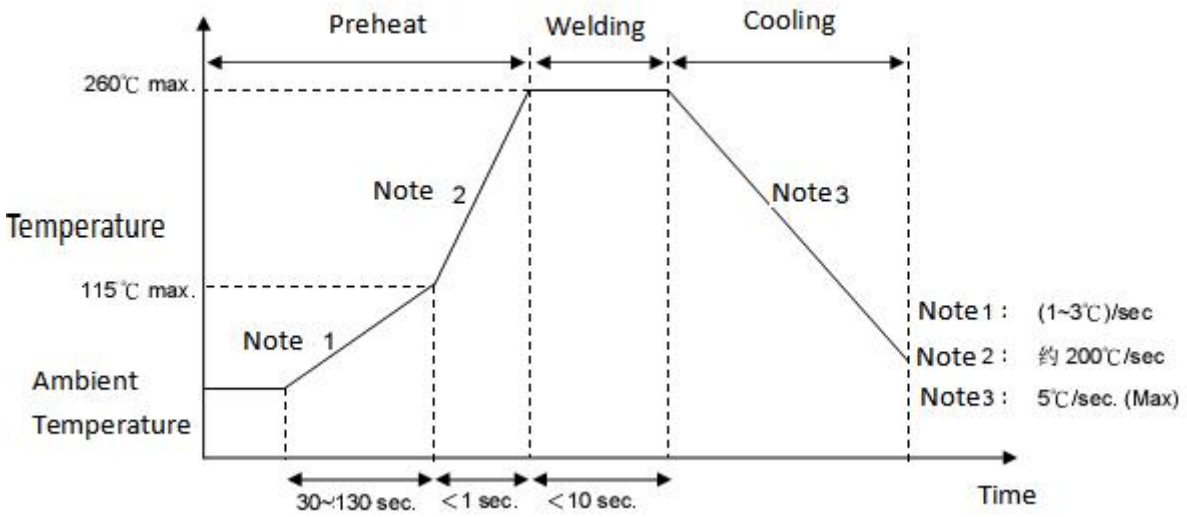
Lead Style	Drawing	Lead Length L (mm)	Coating Lead Length C (mm)	Height H (mm)
Long Straight		16.0 min	①C≤2.5mm (Product diameter < 12mm) ②C≤3.0mm (Product diameter≥12mm)	/
Short Straight		①[2.5≤L＜6.0]+/-0.5; ②[6.0≤L≤10]+/-1.0	①C≤2.5mm (Product diameter < 12mm) ②C≤3.0mm (Product diameter≥12mm)	/
Outside Crimped		①[2.5≤L＜6.0]+/-0.5; ②[6.0≤L≤10]+/-1.0	Not exceed the bend point	5.0mm Max
Vertical Crimped		①[2.5≤L＜6.0]+/-0.5; ②[6.0≤L≤10]+/-1.0	Not exceed the bend point	4.0mm Max

Taping And Dimensions (mm)

Figure	Symbol	P=7.5		P=10.0	
	Po	12.7±0.3		12.7±0.3	
	P	25.4±1.0		25.4±1.0	
	P1	8.95±0.7		7.7±0.7	
	P2	12.7±1.3		12.7±1.3	
	F	7.5±0.8		10.0±0.8	
	Δh	0±2.0		0±2.0	
	W	18.0 +1.5/-1.0		18.0 +1.5/-1.0	
	Wo	10.5 Max		10.5 Max	
	W1	9.0+0.75/-0.5		9.0+0.75/-0.5	
	W2	3.0 Max		3.0 Max	
	Do	4.0±0.2		4.0±0.2	
	H	20+1.5/-1.0		20+1.5/-1.0	
	Ho	16.5&17.0&19.0 +1.5/-1.0		16.5&17.0&19.0 +1.5/-1.0	
	L	Straight Lead	Crimped Lead	Straight Lead	Crimped Lead
		11.0 Max	9.0 Max	11.0 Max	9.0 Max
	t1	0.5±0.2		0.5±0.2	
	t2	1.7 Max		1.7 Max	

Soldering Condition

Wave Soldering Graph



Iron Soldering Condition

Item	Condition
Temperature of soldering copper bit	350℃（max.）
Soldering duration	3sec（max.）
Space between soldering position and coating layer	2mm（min.）