

Safety Standard Certified Ceramic Capacitors-CE Series (Class Y2-300) Data Sheet

Feature

- Wide capacitance range from 100pF to 10000pF
- Operating Temperature: -40℃~125℃
- Storage Temperature: 15℃~35℃
- Fix capacitors Y2 for electromagnetic interference suppression and connection to the supply mains has high dielectric coefficient ceramic dielectric and flame retardant epoxy resin package

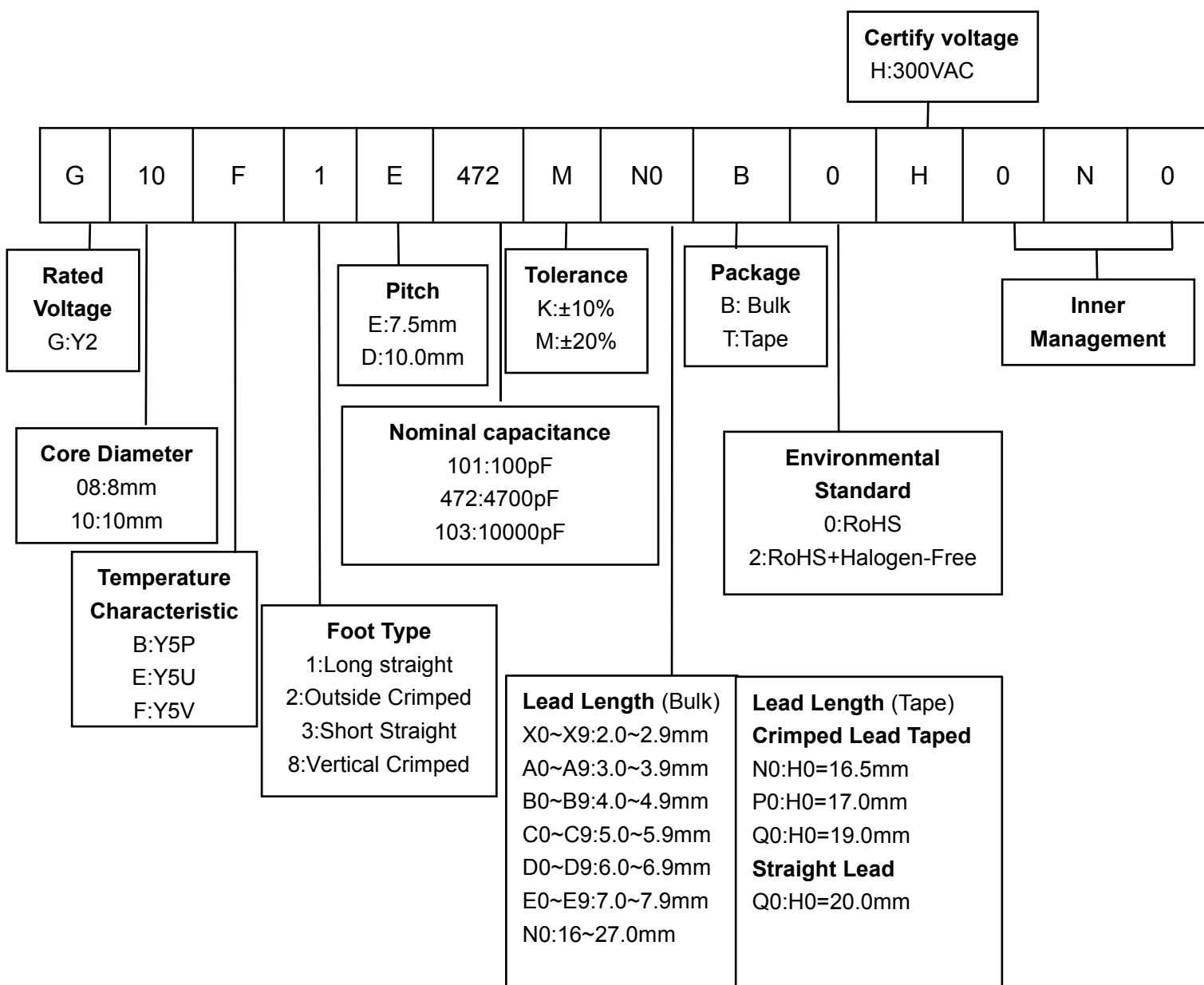
Applications

- 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: 300VAC
China	CQC	GB/T 6346.14-2023	CQC1900121 3202	100~10000pF	
Germany	VDE	En 60384-14: 2017-04	40025748	100~10000pF	
EU	ENEC	En 60384-14: 2017-04	40025748	100~10000pF	

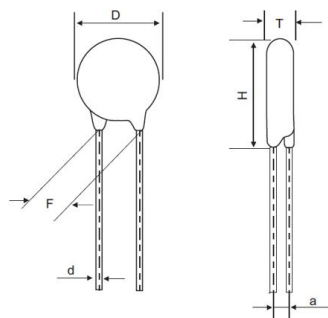
Part Number Code



Specifications

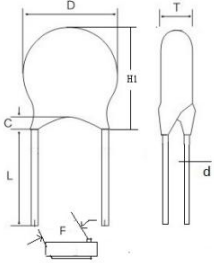
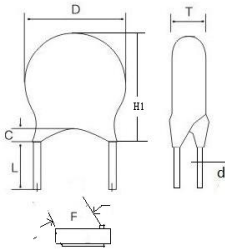
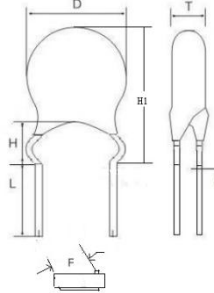
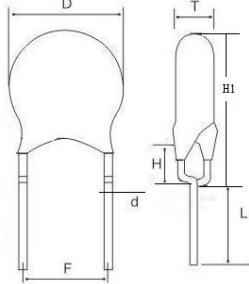
Capacitance and Dissipation factor testing condition	25℃、1KHz、1Vrms
Dissipation Factor(tanδ)	≤2.5%
Rated Voltage	300VAC
Withstand Voltage	2600VAC
Insulation Resistance (I.R.)	IR≥10000MΩ
Temperature Characteristic	Y5P、Y5U、Y5V
Operating Temperature Range	-40℃to+125℃

Dimensions (mm) and Approval

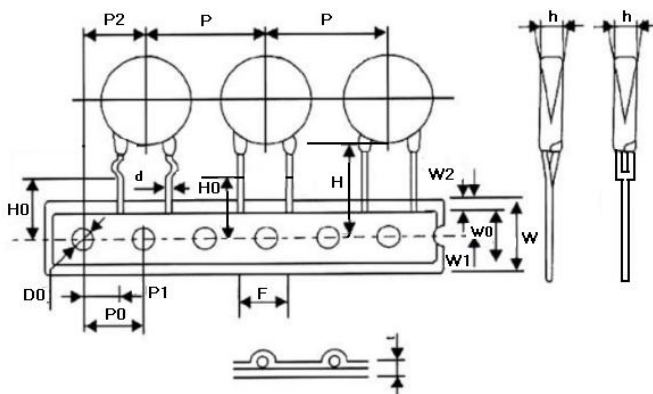


Part No.	Size (mm)					Approval			
	D Max.	T Max.	F±0.5		d±0.05	CQC	VDE	cUL (Canada)	ENEC
Y2-Y5P-101K	7.0	4.5	7.5	10.0	0.6	√	√	√	√
Y2-Y5P-151K	7.0	4.5	7.5	10.0	0.6	√	√	√	√
Y2-Y5P-221K	7.0	4.5	7.5	10.0	0.6	√	√	√	√
Y2-Y5P-331K	7.0	4.0	7.5	10.0	0.6	√	√	√	√
Y2-Y5P-471K	7.0	4.0	7.5	10.0	0.6	√	√	√	√
Y2-Y5P-681K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

Lead Configuration

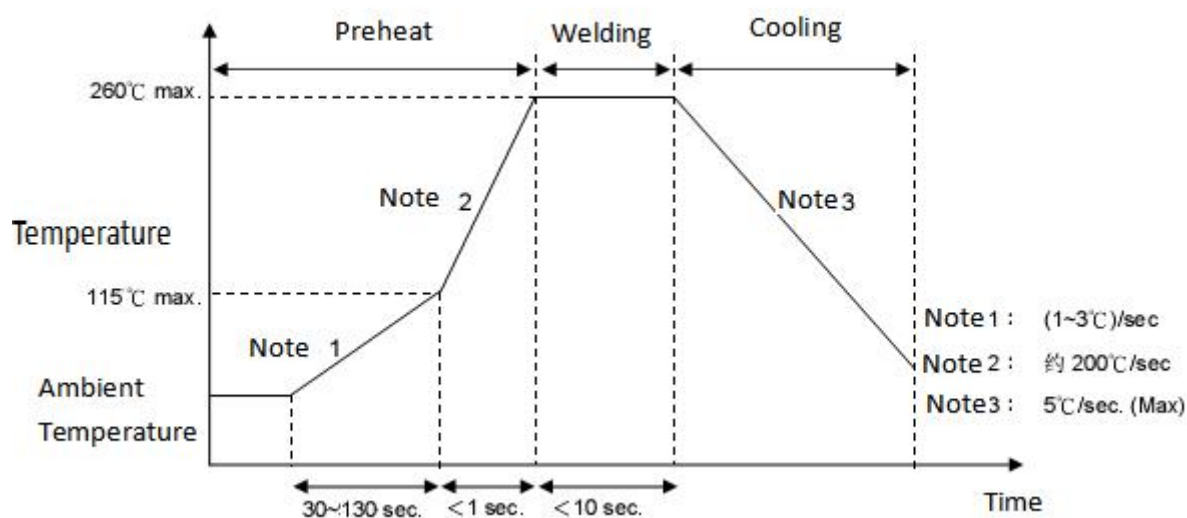
Lead Style	Drawing	Lead Length L (mm)	Coating Lead Length C (mm)	Height H (mm)
Long Straight		16.0 min	① $C \leq 2.5\text{mm}$ (Product diameter < 12mm) ② $C \leq 3.0\text{mm}$ (Product diameter $\geq 12\text{mm}$)	/
Short Straight		① $[2.5 \leq L < 6.0] \pm 0.5$; ② $[6.0 \leq L \leq 10] \pm 1.0$	① $C \leq 2.5\text{mm}$ (Product diameter < 12mm) ② $C \leq 3.0\text{mm}$ (Product diameter $\geq 12\text{mm}$)	/
Outside Crimped		① $[2.5 \leq L < 6.0] \pm 0.5$; ② $[6.0 \leq L \leq 10] \pm 1.0$	Not exceed the bend point	5.0mm Max
Vertical Crimped		① $[2.5 \leq L < 6.0] \pm 0.5$; ② $[6.0 \leq L \leq 10] \pm 1.0$	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



Note: Film capacitor is not suitable for reflow soldering, because it will cause thermal contraction and affect electrical performance.

Iron Soldering Condition

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