

Approved/Recognized Type

Related Star	ndard	Certificate NO	APProved Monogram
CQC (China)	IEC 60384-14	CQC08001022317	Cec
		CQC13001103540	
KC (Korea)	K60384	SU03044-9001	
UL(usa) CSA(Canada)	IEC UL 60384	E356696	c 911 us
ENEC (EU)	EN 60384-14	ENEC-00656-A1 ENEC-00982	15
VDE (Germany)	EN 60384-14	40038642	
IEC CB	IEC 60384-14	US-21902-A1-UL US-23938-UL	

Specifications

Operating Temp.Range	-40° C to $+85^{\circ}$ C, -40° C to $+125^{\circ}$ C							
				X1	Y1			
Applicable Standards	UL, CS	A, CQC, VDE	ENEC,	400VAC	400VAC			
Dielectric	F	Rted Voltage	;	Test	Voltage			
Withstanding Voltage		400VAC		4000 VA	AC for 1 min.			
Dissipation Factor (D.F)	Y5P,Y5U	TANδ(DF) Vrms,25℃	≦2.5 % ,me	easured at 1KHz	±10 % ,1.0 -	_	5.0	
Y5V TANδ(DF) ≦5.0 % ,measured at 1KHz Vrms,25°C						_	5.0	
Capacitance(C)	Range	Range 10 pF to 4700 pF. measured at 1KHz±10 $\%$, 1.0 $-$ 5.0 Vrms, 25 $^{\circ}$ C						
	Tolerance	±10%	Y5P					
		±20%	Y5U,Y5V					
InsulationResiatance(IR)		100	000 ΜΩ ,	1 min , 500	O VDC			
Temperature	Type Code	Temp. Co	eff.	Temp. Range				
Characteristics	Y5P,Y5U	±10%, +22	2~-56%	-40°C to +8	85℃,−40℃	to	+	
	Y5V	+30%~-80%		-40° C to $+8$	85℃,−40℃	to	+	



Part Number Configuration:

JD 102 M 2G Y5V S Т 10

(1) (2) (3) (4) (5) (6)(编带) (7) (8)

(1) AC capacitors, safety

(5) Type code Temperature Characteristic: (B)Y5P,

(F)Y5V, (E)Y5U

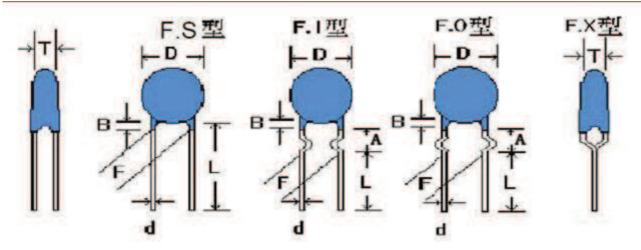
(2) Rated capacitance

(6) Lead shape:S(直角), I(内弯), O(外弯), X(前后弯)

(3) Tolerance on rated capacitance (7) Pin pitch : 7.5or9.5or10.0

(4) Rated Voltage

(8) Lead length: 3-25mm



Dimensions and Tolerance

B=3.0mm max for AA

L=3-30mm

编带详细参数看 P11.



Capacitance and Dimensions:

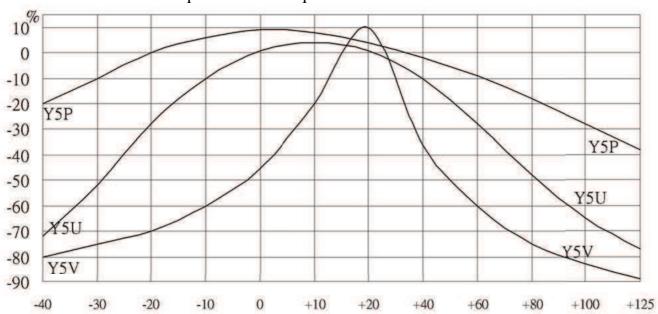
Part Number	T.C.	CAP.	TOL.	Dimension(mm)			
				D max	F	T max	Ф
_							d(±0.05)
DJ 10K2GY5P		10pF			9.5 or 10 ±0.8	6	0.55
To		To		6.5	9.5 or 10 ±0.8	6	0.55
DJ 82K2GY5P		82PF		0.0	9.5 or 10 ±0.8	6	0.55
DJ 101K2GY5P		100PF		6.8	9.5 or 10 ±0.8	6	0.55
DJ 151K2GY5P	±10%	150PF	K	6.8	9.5 or 10 ±0.8	6	0.55
DJ 221K2GY5P	(Y5P)	220PF	±10%	6.8	9.5 or 10 ±0.8	6	0.55
DJ 331K2GY5P		330PF		7.2	9.5 or 10 ±0.8	6	0.55
DJ 471K2GY5P		470PF		8.8	9.5 or 10 ±0.8	6	0.55
DJ 561K2GY5P		560PF		8.8	9.5 or 10 ±0.8	6	0.55
DJ 681K2GY5P		680PF		9.8	9.5 or 10 ±0.8	6	0.55
DJ 102K2GY5P		1000PF		10.0	9.5 or 10 ±0.8	6	0.55
DJ 102M2GY5V		1000PF	M± 20%	6.8	9.5 or 10 ±0.8	6	0.55
DJ 152M2GY5V	+30 ~-80%	1500PF		7.8	9.5 or 10 ±0.8	6	0.55
DJ 222M2GY5V	(Y5V)	2200PF		8.5	7.5 or 10 ±0.8	6	0.55
DJ 332M2GY5V		3300PF		10.2	9.5 or 10 ±0.8	6	0.55
DJ 392M2GY5V		3900PF		11.5	9.5 or 10 ±0.8	6	0.55
DJ 472M2GY5V		4700PF		11.5or12.5	9.5 or 10 ±0.8	6	0.55
DJ 471K2GY5U		470PF		6.8	9.5 or 10 ±0.8	6	0.55
DJ561K2GY5U		560PF	K	7.8	9.5 or 10 ±0.8	6	0.55
DJ681K2GY5U		680PF	±10%	7.2	9.5 or 10 ±0.8	6	0.55
DJ102M2GY5U	+22 ~-56% (Y5U)	1000PF	M±	7.8	9.5 or 10 ±0.8	6	0.55
DJ152M2GY5U	, ,	1500PF	20%	9.3	9.5 or 10 ±0.8	6	0.55
DJ222M2GY5U		2200PF		10.5	9.5 or 10 ±0.8	6	0.55
DJ332M2GY5U	1	3300PF	1	13.0	9.5 or 10 ±0.8	6	0.55
DJ392M2GY5U		3900PF		14.0	9.5 or 10 ±0.8	6	0.55
DJ472M2GY5U		4700PF	1	15.0	9.5 or 10 ±0.8	6	0.55

注: 本规格仅作参考, 在没有告知的情况下, 有可能变更或改进, 如有需求请咨询我司。



El	A TEMPERATURE C	CHARACTERISTIC CHART			
Firs	Second	Last Digit	Last Digit is Capacitance Change Over		
Digit is low	Digit is High	Temperatu	ure Range From + 25 C Reading		
Temperature	Temperature				
X: - 55℃	4: +65℃	Α	± 1.0 %		
Y: -25°C	5: +85℃	В	± 1.5 %		
Z: +10°C	6: +105℃	С	± 2.2 %		
	7: +125℃	D	± 3.3 %		
	8: +150℃	Е	± 4.7 %		
		F	± 7.5 %		
		Р	± 10 %		
		R	± 15 %		
		S	± 22 %		
		Т	+ 22 % - 33 %		
		U	+ 22 % - 56 %		
		V	+ 22 % - 82 %		
Y: -25℃	5: +85°C 6: +105°C 7: +125°C	B C D E F P R S T U	± 1.5 % ± 2.2 % ± 3.3 % ± 4.7 % ± 7.5 % ± 10 % ± 15 % ± 22 % + 22 % - 33 % + 22 % - 56 %		

Capacitance Temperature Characteristics





Performance & Tests, draw up by IEC 60384-14:2005 and GB/T 14472

"Note: (1) Is was defined according with IEC 60384-14:2005, when for qualification approval and periodic tests, the withstanding test must last to 1 minute, and it belong to destroyed test domain, therefore, after the test, capacitors should be scrap. Withstand voltage test should rise slowly at 150V/s, and test time is counted from when the voltage reaches to experiment requirement." (2) The test time is more than 1 second at production period, and the rated test voltage is applied.

Capacitors may cause to damage when withstand voltage test repeated."

NO.	1	Item	Characteristic		Test Method
1	App	earance and	Please refer to figures and	1~1	"Production line visual inspection must be done
	Dimensions		tables on page 2, 3 and 4.		in full and remove the defective products."
				1~2	"Dimensions measurement by micrometer and
					Caliper
2		Marks	Must be clean and clear.		Label need to be able endure wiping with
				2~1	Isopropanol
3					Rated voltage: 300VAC for Y2, test voltage
	W				2000 VAC or 2600 VAC, time 60s, frequency:
	íths	Between			50Hz/60Hz.
	tano	terminal	Can not have exceptions.	3~1	Rated voltage: 400VAC for Y1, test voltage
	l vo				4000 VAC, Approval and period test: 60s,
	ltag				Lot inspection 100% and time 2s, dicharge
	Withstand voltage test (I)				current must ≤ 50 mA."
	st (]			3~2	Use metal foil test method: use metal foil wrap
	()	Between	Can not have exceptions.		around the capacitor body, each end extending
		terminal			at least 5mm, and keep 1mm/1kV distance
	and		3~2	minimum, between metal foil and terminals. for	
		coating.			Y2, test voltage 2300VAC; for Y1, test
					voltage 4000VAC, test time 60s.
4	With	stand voltage	(1)Gauze shall not ignite.		
	test(I	II) (For safety	(2)Capacitors shall not in	4~1	According to IEC 60384-14 and GB / T 14472
	S	ymbol A2)	burned.		requirements.
5		stand voltage	(3)Elements and coating must		
	test (IV)(For safety	not scattered. (4)Terminals		According to IEC 60384-14 and GB / T 14472
	S	ymbol B2)	can not be moved away from	5~1	requirements.
			the mounting position than		
			3mm.		
6		Between	More than $10000M\Omega$.		
	I terminals			6~1	Measured voltage is 500 ± 15 V within 1
	R Be	etween terminals		0.01	minute, and IR keeps within the specified value.
		and coating.	More than $10000M\Omega$.		
7			Within specified tolerance	7~1	The Capacitance shall be measured at 25°C,
	C	apacitance			with 1±0.1kHz and 5Vrms max



8	Dissipation	B(Y5P) $\tan \le 2.5\%$		"The Dissipation Factor shall be measured at 25°C with
	Factor(D.F)	$E(Y5U) \tan \le 2.5\%$		1±0.1kHz and 5Vrms max
		$F(Y5V) \tan \le 5.0\%$		

NO	Item		Characteristic				Test Method		
9		Temperature (Coefficient		9~1	Temperature	Coefficient	(T.C.	category
		(T.C. category	applicable):			applicable):			
		TYPE	SL	YN	9~2	PPM/	$^{\circ}$ C = (Ct2 - Ct	t1)	
	T	Temp.Range					/Ct13	*(t2-t1)	
	lme		+ 350~	- 800~		Ct2: the capa	citance of t2		
	era	20~85℃	-1000pp	-5800		Ct1: the capa	citance of t1		
	Temperature		m/°C	ppm/°C		t2: 85°C±3°C			
						t	1: 20°C±2°C		
		Temperatu	re characteris	tics: (High		Temperature p	hase		
	Ch		applicable)			1 *	2) -25±2°C →	3) 20±2	°C →4)
	arac	Capacitano	ce change rate	within the		85±2°C →5)			
	Characteristic	range:				_	hange: (High I	Dielectric	Category
	istic					applicable)			
		J 1	Within $\pm 10\%$		9~3		Ctx — Ct20)/Ct2		7 501
		J 1	Within $+22\%$			_	Temp. phase		
		Type F	Within +309	% −80%		-	any temperatu	re betwee	en phase 2
						to phase 4. Ct20: The capacitance of phase		hogo 2 tom	
10	R		Lead wires not	be snapped	10~1	Ct20: The capacitance of phase 3 temp. Diameter(mm) Load(kgs) Time(sec)			_
	Robustness	Tensile		• • • • • • • • • • • • • • • • • • • •		0.5Ф	0.5	10	,
	tnes			0.6Ф~0.8Ф	1	10			
			Capacitors not	be damaged					. "1
	of				10~2	_	citor's body an		
	terminations					direction	lly to each lead	ı wire in	the radial
	natio		Lead wires not	be fractured	10~3	Diameter(mm)	Load(kgs)	Bendin	g angle is
	ons	Bending	Capacitors not	be damaged		0.5Ф	0.25		ore than
						0.6Ф~0.8Ф	0.5	twice.	
11	Vibratio	Appearance	No significant a	abnormal	11~1	1	uency from 1		
	nresista nce	Cap.	Within specific	ation		back to 10Hz, amplitude 1.5mm, period time within 1 minute.		ting time	
		Q or DF	within initial sp	pecification					
12	Solderi	Appearance	No significant a	abnormal	12~1	Solder tempera	ature 350±10°C e 3.0± 0.5sec		



		Strength I C Capacitance E change rate E	ompliance with the haracteristic as No.3 3: within ±10% 5: within ±15% 7: within ±20%	12~2	Placed at room condition for 4~24 hours, and then to measure.
No	Item	(Characteristic		Test Method
13	Solder ability		rface of lead wires, there area welding with the	13~1 13~2	Solder temperature 275±10°C Immersion time 2.0± 0.5sec
14		Appearance	No significant abnormal	14~1	Temperature: 40±2℃
	Humidity	Dielectric Strength I	Must meet the requirements of No.3	14~2	Humidity: 90~95%RH
	Humidity (Under Steady State)	Between terminals Between terminal & coating	More than the 1/2 value of No.6 requirements.	14~3	Time: 500±12 Hrs Remove & placed at room condition for 1~2 hours, and then to measure.
		Capacitance change rate	Type B within ±15% Type E within ±20% Type F within ±30%		
		Dissipation Factor (D.F)	Type B & E, under 5%. Type F, under 7.5%		
15	Damp he	Appearance	No significant abnormal	15~1	Temperature: 40±2°C
	Damp heat loading	Dielectric Strength I	Must meet the requirements of No.3	15~2	Humidity: 90~95%RH



	IR	Between terminals Between terminal & coating	More than the 1/2 value of No.6 requirements.	15~3	Time: 500±12 Hrs Voltage: AC 180Vrms
	Capacitance change rate		Type B within ±15% Type E within ±20% Type F within ±30%	15~5 15~6	Current: Less than 50mA Remove & placed at room condition for 1~2 hours, and then to measure.
		issipation actor (D.F)	Type B & E, under 5% Type F, under 7.5%.		

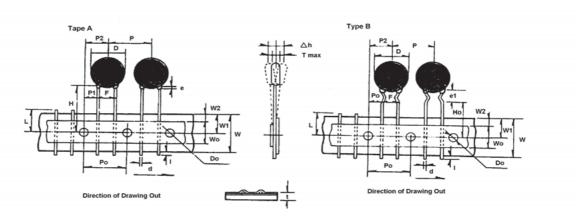


No	Item		Cha	racteristic	Test Method		
16		Appearance		No significant abnormal	16~1	Temperature: 85±3°C; 125±5°C	
	Endı	Dielectric Strength I		"Must meet the requirements of No.3		Time: 1000±12 Hrs	
	Endurance	I R	Between terminals	More than the 1/2 value of No.6 requirements.	16~3	Voltage: rated voltage of 1.7UR	
			Between terminal&coating		16~4	Current: less than 50mA	
		Capacitance change rate		Type B within ±15% Type E within ±20% Type F within ±30%	16~5	Remove & placed at room condition for 1~2 hours, and then to measure.	
		Dis	ssipation Factor (D.F)	Type B & E, under 5% Type F, under 7.5%			
17	Flame Test		st	Applicable safety symbols A2, B2.		The capacitor should be subjected to applied flame for 15 sec, and then removed for 15 sec, until 3 cycles are completed. And then continued to flame a minute and never to explode.	
18	Solvent Resistance (Body)		Resistance (Body)	ody) After the test must meet the standards of its electrical properties		The capacitor should be immersed into a isopropyl alcohol for 5±0.5 minutes, then removed and placed for 48 hrs. at room condition before post measurements.	
19	Solve	olvent Resistance (Mark)		ent Resistance (Mark) Marks should be legible			Use cotton yarn dips isopropyl alcohol, by force 5±0.5 N/1 cm ² , 1 second round trip twice to wipe mark on the body, and run 5 cycles.



TAPING SPECIFICATIONS

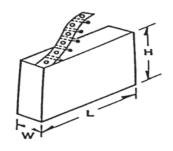
Taping (Radial)--Lead Spacing F=7.5±0.8 or 10.0±0.8



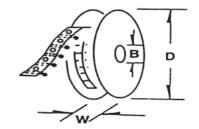
Item	Code	Dimensions (mm)	Item	Code	Dimensions (mm)
Taping Pitch	P	12.7±1.0	Lead Protrusion 1 +0		+0.5~1.0
Guide Pitch	Po	12.7±1.0	Diameter of Feed Hole	Do	4.0±0.3
Lead Spacing	F	5.0±0.8	Diameter of Lead	d	0.55+0.06
		7.5±0.8			-0.05
		9.5±0.8			
Feed Hole Position Capacitor	P2	6.35±1.3	Total Thickness of Tape	t	0.7±0.2
Body					
Feed Hole Position Capacitor	P1	3.85±0.7	Thickness of Capacitor Body	T	Differ in each product
Lead					
Diameter Of ISO	D	See table of	Alignment to FR. Direction	Δh	0±2.0
		each series	Length of snipped Lead	L	11.0 +0 -1.0
Width Of Base Tape	W	18.0±0.5	Width of Hold-down Tape	Wo	12.5
Feed Hole Vertical Position	W1	9.0 +0.75 -0.05	Hold-down Tape Position	W2	1.5±1.5
Taping For Straight	Но	16.0±0.5	Coating Extention	e	3.0 以下
Height For Crimp	Н	20 +1.5 -1.0	el up t		up to center of
					crimp

AMMO PACK REE





 $H = 241\pm 5 \text{ mm}$ $L = 332\pm 5 \text{ mm}$ $W = 42\pm 3 \text{ mm}$



 $D \le 354(13.93)$ $B \ge 21(.83')$ but $\le 30(1.18'')$ $W \le 55(2.16)$

Acceptable to standard radial type cartridge.

Acceptable to standard radial type cartridge with a few acceptable to accessories.

extra accessories. Reeled axials are also standard axial type cartridge with a few