頁	次	交流安規圓板陶瓷電容器承認書 X1,Y1	文	件	編	號
	1/8	文/// 文/// 文/// 文/// 文/// 文/// 文/// 文//				

1. This specification is applied to following Safety Standard Recognized Ceramic Capacitor for Electronics Appliance.

VDE /FIMKO/DEMKO/NEMKO/SEMKO/SEV
X1,Y2 Class(en132400)baned on IEC 384-14 2nd Edition
UL/CSA /CQC

2. Approval Stadard and Recognized

			AC Rated
	Standard No	Recognizied No.	Voltage
			V(r.m.s.)
UL	UL 1414		
CSA	C22.2 No.1		250
VDE			
FIMKO	IEC60384-14		X1:400
DEMKO	(ed2);am1		Y1:400
SEMKO	(EN 132400)		
NEMKO			
SEV			
CQC			T

3.Part numbering

Ex: JB Y5P 101P K Y P9.5 D5 L25

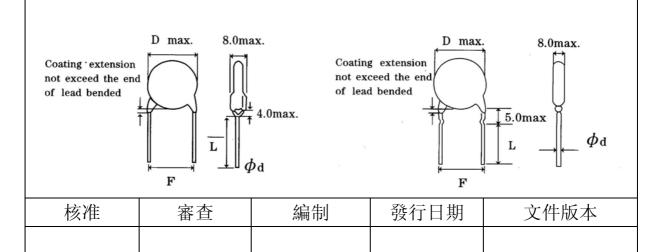
Type Temperature Capacitance Capacitance Lead Style Lead Spacing Nminal Body Lead Length Tolerance P7.5.:7.5mm Diameter L25:25 \pm 1mm P9.5:9.5mm

4.Rating

4.1 Operating Temperature: -25~+85°C

4.2 Lead Style : Lead code : Y

Lead code:K



→ 2 :Secondly Quarter

3: Third Quarter

Four Quarter

Marking:

FIMKO APPROVAL MARK: ① Typesignae Dtion:JB

VDE Approval Mark: Mominal Capacirance:3-digit-susem

DEMKO Approval Mark: O Company Name Code: JHC

SEMKO Approval MarK: S Manufactured Date: Abbreviation

SEV Approval Mark:

CSAApprovalMark: 2005 年 1: First Quarter

Ex: 5

UL Approval Mark:

250~

CQC

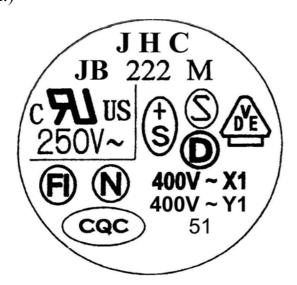
CQC Approval Mark:

IEC 60384-14 CLASS CODE:X1,Y1

IEC 60384-14CLASS: 400~X1

RATED VOLTAGE MARX 400~Y1

(ex:)



核准	審查	编制	發行日期	文件版本

<u>到</u> 次

交流安規圓板陶瓷電容器承認書 X1,Y1

文 件 編 號

Part Numbering

• Straight long

		Cap	Cap		Dimensio	ons(unit:	nm)	AC tested
Part number	Т. С.	(pf)	Tol	D	F	T		Vol.
			(%)	Max.	± 1.0	Max.	Фd	V(r.m.s.)
MY5P101PKJBP9.5D5		100						
MY5P151PKJBP9.5D5		150		7				
MY5P181PKJBP9.5D5		180						
MY5P221PKJBP9.5D5	В	220	$\pm 10\%$					
MY5P331PKJBP9.5D6	(Y5P)	330		8				
MY5P471PKJBP9.5D7		470		10				
MY5P681PKJBP9.5D8		680						
MY5P102PKJBP9.5D10		1000		12				
MY5U102PMJBP9.5D7		1000		10			0.65	
MY5U152PMJBP9.5D9	Е	1500		11	9. 5	8. 0	± 0.05	
MY5U222PMJBP9.5D10	(Y5U)	2200	$\pm 20\%$	13				4500
MY5U332PMJBP9.5D13		3300		16				
MY5U472PMJBP9. 5D15		4700		19				
MY5V102PMJBP9.5D5		1000		8				
MY5V152PMJBP9.5D5		1500		9				
MY5V222PMJBP9.5D8	F	2200	$\pm 20\%$	10				
MY5V332PMJBP9.5D10	(Y5V)	3300		12				
MY5V472PMJBP9.5D11		4700		13				
MY5V103PMJBP9.5D15		10000		19				

核准	審查	编制	發行日期	文件版本	

	Item Specification			Testing Method					
1	Dieiectr	Between		ure	The capacitors shall not be damage when AC2600V				
	Strength	Lead wire	res		are applied between the lead wires for 60 sec (charge/discharge current<50mA)				
		Body insulation	No failure		First.the Together.T boy of the terminal.Th	termina hen.a n ecapacit hen.The vith inallyA lead	ls of the netal foil shaltor distance of capacitor slimetal ball C4500V is a	capacitor a ill be closely of about 3 hall be inse ills of applied for	ahall be connected wralled Around the to 4mm from each erted into acontainer about 1mm 60 sec.between the alls.(charge/discharge
2	Insulartion	1	10000M Ω mi	n			stanceshall be	e measured v	with
	Resistance	e(I.R.)			500 <u>+</u> 50VI	OC with	60 <u>+</u> 5sec.of	charging	
3	Capacitan	ce	Within specifi	id	The Capac	itance s	hall be measu	red at 20 ℃	
	-		Tolerance.		With 1 <u>+</u> 0.	1kHz aı	nd 5Vrms max	ζ	
4	Dissipatio	n	Char. Sper	cified	The Capac	itance s	hall be measu	red at 20°C	
	Factor(D.I		B D.F≤	≤2.5%	-		nd 5Vrms max		
			F D.F	≤5.0%					
5	Temperature Characteristic Char Capacitance Change					neasurement s d in Table 1.	shall be mad	e at	
			B Within			Step	Temper	rature	
			F Within-	80~+30%			B.1	Е	
						1	+20 <u>+</u>	2℃	
						2	-25 <u>+</u> 2	2℃	
						3	+20 <u>+</u>	2℃	
						4	+85 <u>+</u>	2℃	
						5	+20 <u>+</u>	2℃	
					Pre-treat				'
						atroo		· 	for 1 hour. then 24±2 huors before
6	Robustness	Tensile	Lead wire s	shall not			on n its norm	al position.	The specimen is held
	Of		cat off		buits bodu	in sucl	h a manner tl	nat the zxis	of the. temination is
	Termination	ı	capacitor sha broken	II not be	vertical th	e tens	ile force of	10N shall	be applied to the
			DIOKCII		termination	n in the	direction of it	s axis	
					and acting in	a direc	tion awau from	the body of t	he specimen
		Bending	off		and acting in a direction awau from the body of the specimen but With the termination in its normal position .the specimen is held b its body In such a manner that the axis of the termination is vertical: mass applying a force of 5N is then suspended from the end of the termination. The body of the specimen is then inclined within a period of 2 to 3 sec. ,through an angle of a approximately 90in the vertical plane and then returned its initial; position over the same period of time ;this operation constitutes one bend .One bend immediately followed by a second bend in the opposite direction.				
*	room co	ndition"	'temperature:15	5~35℃,					re 86~106kpa.
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<u>頁</u> 次

交流安規圓板陶瓷電容器承認書 X1,Y1

			Specification	Testing Method				
		Appearance	No marked defect	Solder temperature:350	` '			
	Effect	I.R.	1000MΩ min		0.5sec.			
			Per Item 1	(In case of The depth of immersion	260.±5°C; 10±1 sec)	Capacitor		
		strength		be a position 2+0/0.5m		Lapacitor 1.5		
			B.F:Within±10%	the seating plane. Using	g a 🔲	to 2.0mm		
				thermal insulating scre	en of	molten		
				1.5±0.5mm thickens.	<u></u>	solder		
				Pre-treatment: Capacitor shall be store	od at 85±2°C for 1 hour			
				then placed at room co				
				before initial measuren		41 5		
				Post-treatment:				
				Capacitor shall be store room condition.	ed for 1 to 2 hours at			
8	Humidity	Appearance	No marked defect	Set the capacitor for 5	00+12 hours at 40+2	°C in 90 to		
	(Under			95% humidity.	12 110 010 00 10-2	-, > 0 00		
	steady	Capacitance	B: Within ±10% E: Within ±30%	Then Capacitor sha	ll be stored for 1	to 2 hours at room		
	state)	D.F.	B: 5.0%max	condition.				
		2.1.	F: 7.5%max					
		I.R.	3000M Ωmin					
			Per Item 1.					
		strength	NI 1 1 1 C 4	A 1 (1 (1 1)	C 500 : 101	. 40 . 2°C :		
	Loading		No marked defect	Apply the rated volta	_	at 40±2 C,1n to 2 hours at room		
	Loading	Capacitance	pacitance B: Within ±10% F: Within ±30%	condition.	y and set it ioi i	to 2 nours at room		
		DE						
		D.F.	B: 5.0%max F: 7.5%max					
		I.R.	3000M Ωmin					
		Dielectric						
		strength						
10	Life		No marked defect	Impulse Voltage	. 1 11 1 1	. 1. 6137		
			B,F: Within 20%		pacitor shall be subje times. After the capa			
		I.R.	3000M Ωmin	applied to life test.		chois are		
		Dielectric strength	Per Item 1.	Fig.	90	T1=1.2µsec1.=1.67T		
		Discharge Discharge	No failure		50	T2=50 µ sec1		
		Test(II)			30			
					T T1	t		
					T2			
				The specimen capaci				
						n air in the oven is		
				maintained at a temp				
				test. The capacitors a				
<u>`</u> ,	room co	ndition"tem	<u> </u> nerature:15~35℃	the voltage is increas humidity:45~75%,a				
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	Item	1	Specification		Testing Method	
11	Test(I)	Appearance I.R. Dielectric	1000MΩ min	As in Figure 1. discha Intervals form the cap of specified.	-	
		strength		Ct: Capacitor und S1: High-voltage R1: 1000 R2: 100 MΩ R3: Surge resista	switch	Figure1)
					<u> </u>	
12			shall not glow	The direct current supply is to be adjusted to provide potential in accordance with the following. Vdc= Sou(Cd-Ct) Cd Vac: Supply source rated 240V,60Hz and 30A Ct: Capacitor under test Cd O.001μF Vs 10KVDC 10KV		co be subjected charged to a DC5KV across the successive otential is to be is to be harge. Unless reakdown of to provide a .
	 核准	<u> </u>	 審查	D.F. of Cd 编制	0.5%max.	0.5%amx
	/汉1比		田 旦	为时 印1	79/11 口 79	又下放平

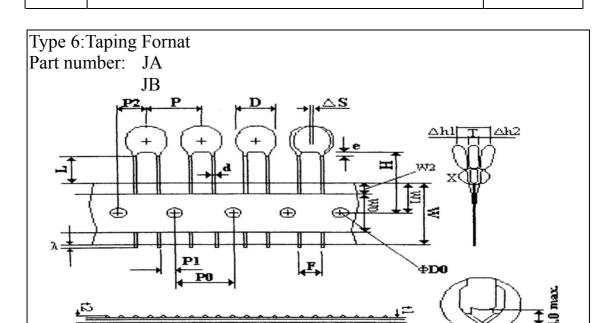
頁 次 7/8

交流安規圓板陶瓷電容器承認書 X1,Y1

	Item	Specification	Testing Method
13	Flame Test	The capacitor flame discontinue as follows Cycle Time 1-4 30 sec.max 5 60 sec.max	The capacitor shall be subjected to applied for 15 sec. And them removed for 15 sec, until 5 cycle Fig. Capacitor Flame Gas.Burner (Unit: mm)
14	Active Flammability	The cheese-cloth shall not be on fire	The specimens shall be individually wrapped in at least One but more than two complete layers of cheese-cloth The specimens shall be subjected to 20 discharges. The interval between successive discharges shall be 5sec. The Uac shall be maintained for 2 min. after the last discharge. Fig. Oscilloscope R: 100Ω±2%, Uac: Ur±5% Cx: capacitor Ut: Voltage applied to Ct Ux Lime
15	Passive Flammability	The burning time shall not be exceeded the time 30 sec. The tissue paper shall not ignite.	The capacitor under test shll be held be held in the flame in the position, which best promotes burning. Each specimen shall only be exposed once to the flame. Time of exposure te flame: 30 sec. Length of flame:12±1mm Gas burner: Length 35mm min Inside Dia: 0.5±0.1mm Outside Dia: 0.9mm max. Gas: Butane gas Purity 95%min Test specimen Tissue (Unit: mm)
	核准	審查	编制 發行日期 文件版本

湏		次
	8/8	

交流安規圓板陶瓷電容器承認書 X1,YI Y2



]	POE P/N			JA	JB	
	Item		Svmbol	Dimensions(mm)	Dimendions(mm)	
Pitch of comoo	nent		P	15	30	
Pitch of sprocke	et		P0	15.0 <u>+</u> 0.3	15.0 <u>+</u> 0.3	
Lead apacing			F	7.5 <u>+</u> 1.0	10.0 <u>+</u> 1.0	
Length fron hole	center to component center	•	P2	7.5 <u>+</u> 1.5	7.5 <u>+</u> 1.5	
Length from ho	ole center to lead		P1	3.75 <u>+</u> 1.0	3.75 <u>+</u> 1.0	
Body diameter			D	See the individuslpro	oduct specification	
Deviation along	g taoe,life or right		$\triangle S$	0 <u>+</u> 2.0	0 <u>+</u> 2.0	
Carrier tape wie	dth		W	18.0 <u>+</u> 0.5	18.0 <u>+</u> 0.5	
Position of spro	ocket hole		W1	9.0 <u>+</u> 0.5	9.0 <u>+</u> 0.5	
Lead distance betw	veen reference and bottom pl	lanes	Н	20.0 <u>+</u> 1.5	20.0 <u>+</u> 1.5	
Protrusion leng	th			+0.5~-1.0	+0.5~-1.0	
Diameter of spr	rocket hole		D0	4.0 <u>+</u> 0.1	4.0 <u>+</u> 0.1	
Lead dianeter			d	0.65	0.65	
Total tape thick	ness		t1	0.6 <u>+</u> 0.3	0.6 <u>+</u> 0.3	
Total thickness.	taoe and lead wire		t2	1.5max.	1.5max.	
Deviation acros	ss tape		∆h1	2.0max	2.0max.	
		=	△h2			
Porion to cut in	case of defect		L	11.0+0.1/-0	11.0+0.1/-0	
Hole-down tape	e wisth		W0	11.0	11.0	
Hole-down tape	e distortion		W2	3.0max	3.0max.	
Coating extensi	ion on leads		e	3.0max	3.0max.	
Body thickness			T	See the individual product specification		
核准	審查	编	制	發行日期	文件版本	