

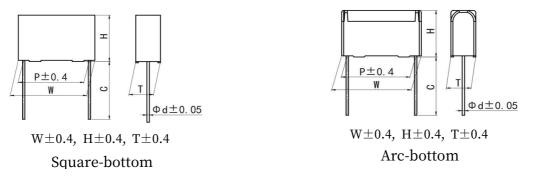
Version history

Current version	Date	Author	Change description



Metallized polypropylene film interference suppression capacitor (Class X2, THB Version) (Temperature Humidity Bias series)

Outline Drawing



■ Features

• High stability of capacitance under severe ambient condition, such as high temperature and high humidity

- •Good self-healing properties, withstanding surge voltage stressing
- •Excellent active and passive flame resistant abilities

■ Applications

- •For connection in series with the mains
- •For capacitive divider power supply
- •Such as power meter, LED driver, and other severe ambient condition applications.

GB/T 6346.1	B/T 6346.14 (IEC60384-14)				
CQC03001002875; ENEC-VDE:40000358;					
UL-CUL: E1	86600, CCN: FOWX2/8				
Class X2					
40/110/56/D					
40/110/30/D					
-40°C ~+110	0°C				
305Vac/275V	/ac, 50/60Hz				
$0.010 \mu F \sim 15$	jμF				
±10%(K), =	±20%(M)				
Between Te	rminals:	$4.3U_{\rm R}({\rm dc}), 2{\rm s}$			
Between Te	rminals To Case:	2 120Vac, 1min			
$R \ge 15000 M\Omega$, $CN \le 0.33 \mu F$ (20% 100V 1min)					
$RCN \ge 5000$ s, $CN > 0.33 \mu F$ (20°C, 100V, 1min)					
$CN{\leqslant}1.0\mu F$	≤10×10 ⁻⁴ (1kHz,20°C)	≤20×10 ⁻⁴ (10kHz,20°C)			
$CN > 1.0 \mu F$	≤20×10 ⁻⁴ (1kHz,20°C)	≪40×10 ⁻⁴ (10kHz,20°C)			
Temperature: 85°C±2°C; Humidity: 85%RH±2% RH					
Voltage: 240	Vac 50Hz; Duration:	1 000 hours			
Capacitance change ($\Delta C/C$): $\leq 10\%$					
Dissipation factor change ($\Delta \tan \delta$): $\leq 0.5\%$ (1kHz)					
	CQC0300100 UL-CUL: E13 Class X2 40/110/56/B $-40^{\circ}C ~ +110$ 305Vac/275V $0.010\mu F ~ 15$ $\pm 10\%(K)$, = Between Ten R > 15 000M RCN > 5 0000 CN $\leq 1.0\mu F$ CN > 1.0 μF Temperatur Voltage: 240 Capacitance	UL-CUL: E186600, CCN: FOWX2/8 Class X2 40/110/56/B $-40^{\circ}C \sim +110^{\circ}C$ 305Vac/275Vac, 50/60Hz $0.010\mu F \sim 15\mu F$ $\pm 10\%(K), \pm 20\%(M)$ Between Terminals: Between Terminals To Case: R $\geq 15000M\Omega$, CN $\leq 0.33\mu F$ RCN $\geq 5000s$, CN $> 0.33\mu F$ CN $\leq 1.0\mu F$ $\leq 10\times10^{-4}(1kHz, 20^{\circ}C)$ CN $\geq 1.0\mu F$ $\leq 20\times10^{-4}(1kHz, 20^{\circ}C)$ Temperature: 85°C $\pm 2^{\circ}$ C; Humidity Voltage: 240Vac 50Hz; Duration: Capacitance change ($\Delta C/C$): $\leq 10\%$			

Specifications



Insulation resistance: ≥50% of the rated value

Note: 1.Recommend for max rated supply mains voltage 250Vac application;

2. If used in application which has ripple current applied, recommend to use AC filter series: C6A etc. If have any questions please contact our technical engineer for more detail.

■ Part number system

The 15 digits part number is formed as follow:

111		, uit	5113	μαιι	nu	mbe	1 13	101	meu	as	IOIIC	J v v •		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
С	4	2								W				
Dig	Digit 1 to 3 Series code													
			C42	=MK	P62									
Dig	git 4 t	o 5	Α.0	C. rat	ed v	oltag	ge							
			Q2=	305V	Р	2=27	′5V							
Dig	git 6 t	:0 8	Ra	ted c	apac	citan	ce va	lue						
			For	exan	nple	: 4	174=4	17×3	10 ⁴ pl	F=0.4	47uF			
Dig	git 9		Ca	pacit	ance	e tole	erand	ce						
			K=:	± 109	% N	/I=±	20%							
Dig	git 10		Pit	ch										
			6=1	5.0n	ım	9=22	2.5m	m	B=27	.5mı	m	F=37	7 . 5m	m
Dig	git 11		Int	erna	l use	e								

Digit 12 to 15 Lead form and packaging code

I	Digit 12		Digit 13		Digit 14		Digit 15
Code	explanatio n	Code	explanation	Code	explanation	Code	explanation
А	ammo-pac k	6	F=15.0mm	0	straight	5	P3=25.4mm;H=18.5mm (For pitch=10/15mm)
		Code	e	xplanati	on	0	Length tolerance ± 0.5 mm
	straight ad "C" in the figure above	"C" in the45lead length 4.5mmgure35lead length 3.5mm		8mm~26mm)	2	Or standard length Length tolerance \pm 0.3mm	
Note:	Recommen	d shor	t lead due to	long le	ad could defo	rm eas	ily.



■ Dimensions(mm)

	<u>305Vac/275Vac</u> [#]					305Vac/275Vac [#]							
C _N (μF)	w	н	Т	Ρ	d	Part number	C _N (μF)	W	н	T	Р	d	Part number
0.010	17.5	11.0	5.0	15.0	0.6	C42Q2103-6W****	0.47	32.0	18.0	9.0	27.5	0.8	C42Q2474-BW***
0.015	17.5	11.0	5.0	15.0	0.6	C42Q2153-6W****	0.56	32.0	18.0	9.0	27.5	0.8	C42Q2564-BW***
0.022	17.5	11.0	5.0	15.0	0.6	C42Q2223-6W****	0.68	32.0	18.0	9.0	27.5	0.8	C42Q2684-BW***
0.033	17.5	11.0	5.0	15.0	0.6	C42Q2333-6W****	0.82	32.0	20.0	11.0	27.5	0.8	C42Q2824-BW***
0.047	17.5	11.0	5.0	15.0	0.6	C42Q2473-6W****	1.0	32.0	20.0	11.0	27.5	0.8	C42Q2105-BW***
0.068	17.5	11.0	5.0	15.0	0.6	C42Q2683-6W****	1.2	32.0	22.0	13.0	27.5	0.8	C42Q2125-BW***
0.10	17.5	12.0	6.0	15.0	0.6	C42Q2104-6W****	1.5	32.0	22.0	13.0	27.5	0.8	C42Q2155-BW***
0.15	17.5	13.5	7.5	15.0	0.6	C42Q2154-6W****	2.2	32.0	28.0	14.0	27.5	0.8	C42Q2225-BW***
0.22	17.5	14.5	8.5	15.0	0.8	C42Q2224-6W****	2.7	32.0	33.0	18.0	27.5	0.8	C42Q2275-BW***
0.27	17.5	16.0	10.0	15.0	0.8	C42Q2274-6W****	3.3	32.0	33.0	18.0	27.5	0.8	C42Q2335-BW***
0.33	17.5	16.0	10.0	15.0	0.8	C42Q2334-6W****	★ 3.9	32.0	37.0	22.0	27.5	0.8	C42Q2395-BW***
0.39	17.5	19.0	11.0	15.0	0.8	C42Q2394-6W****	★ 4.7	32.0	37.0	22.0	27.5	0.8	C42Q2475-BW***
0.47	17.5	19.0	11.0	15.0	0.8	C42Q2474-6W****	★ 2.2	41.0	26.0	12.0	37.5	1.0	C42Q2225-FW***
0.10	26.5	15.0	6.0	22.5	0.6	C42Q2104-9W****	★ 2.7	41.0	28.0	14.0	37.5	1.0	C42Q2275-FW***
0.15	26.5	15.0	6.0	22.5	0.6	C42Q2154-9W****	3.3	41.0	30.0	16.0	37.5	1.0	C42Q2335-FW***
0.22	26.5	15.0	6.0	22.5	0.6	C42Q2224-9W****	★ 3.9	41.0	32.0	17.0	37.5	1.0	C42Q2395-FW***
0.27	26.5	16.0	7.0	22.5	0.6	C42Q2274-9W****	4.7	41.0	33.5	18.5	37.5	1.0	C42Q2475-FW***
0.33	26.5	16.0	7.0	22.5	0.6	C42Q2334-9W****	5.6	41.0	34.0	20.0	37.5	1.0	C42Q2565-FW***
0.39	26.5	17.0	8.5	22.5	0.8	C42Q2394-9W****	6.8	41.0	37.0	22.0	37.5	1.0	C42Q2685-FW***
0.47	26.5	17.0	8.5	22.5	0.8	C42Q2474-9W****	8.2	41.0	37.0	26.0	37.5	1.0	C42Q2825-FW***
0.56	26.5	18.5	10.0	22.5	0.8	C42Q2564-9W****	10M	41.0	41.0	26.0	37.5	1.0	C42Q2106MFW**
0.68	26.5	18.5	10.0	22.5	0.8	C42Q2684-9W****	★ 10K	41.0	43.0	28.0	37.5	1.0	C42Q2106KFW***
0.82	26.5	20.0	11.0	22.5	0.8	C42Q2824-9W****	★12	42.0	45.0	30.0	37.5	1.0	C42Q2126-FW***
1.0	26.5	22.0	12.0	22.5	0.8	C42Q2105-9W****	★15	42.0	50.0	30.0	37.5	1.0	C42Q2156-FW***
1.2	26.5	24.5	15.5	22.5	0.8	C42Q2125-9W****							
1.5	26.5	24.5	15.5	22.5	0.8	C42Q2155-9W****							

Note: 1. "-" =capacitance tolerance code, K= $\pm 10\%$, M= $\pm 20\%$

2. " **** " =lead form and packing code (refer to table 1)

3. "#" when the rated voltage is 275Vac, the digit 4~5 is P2.

4. If used in the 380Vac, Pls refer to MKP65. Pls contact our technical engineer for more details.

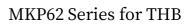
5. " \star " = Arc-bottom of the outer shell.



■ Test Method And Performance (IEC 60384-14)

Group	Item	Conditions of test	Performance requirements		
. 1	4.1 Visual examination	Dimensions: gauging by vernier	No visible damage & legible marking		
A1	4.1Dimensions(Gauging	caliper	Fit detail specification		
	4.2.2 Capacitance 4.2.3 Tangent of loss angle	Measuring frequency: Capacitance: 1kHz Tangent of loss angle:	Within specified tolerance		
A2	4.2.1 Voltage proof	CN≤1µF: 10kHz; CN>1µF: 1kHz Voltage proof between terminals: 4.3UR(d.c.), 1min	No permanent breakdown or flashover		
	4.2.5 Insulation Resistance	IR. test voltage: 100Vd.c.	I.R.:≥the rated value		
B1	4.5 Solderability	Methods: Groove welding Ta, Method 1 Solder temperature: 245°C±5°C Immersion time: 2.0s±0.5s	Good quality of tinning		
	4.1Visual examination	Dimensions: gauging by vernier	No visible damage & legible marking		
	Initial 4.1Dimensions meas Gauging)	caliper Measuring frequency: Capacitance: 1kHz	Fit detail specification		
	urem 4.2.2Capacita ent nce 4.2.3Tangent of loss angle	Tangent of loss angle: - $C_N \leq 1\mu$ F: 10kHz; $C_N > 1\mu$ F: 1kHz	Within specified tolerance		
	4.1.1 Creepage distances and Clearances	Gauging by vernier caliper	Creepage distances≥4.0mm Clearances≥3.0mm		
C1A	4.3 Robustness of Terminations (straight lead)	Tense: $0.50 < d \le 0.80$, 10N $0.80 < d \le 1.25$, 20N Ub bending test: Bend: $0.50 < d \le 0.80$, 5N $0.80 < d \le 1.25$, 10N The terminals shall be bent 2 times in each direction	No visible damage		
	4.4 Resistance to Soldering heat	Capacitors are not pre-dried Groove Method Tb, Method 1A Solder temperature: 260°C±5°C Immersion time: 10s±1s	No visible damage & legible marking		
	4.19 Component solvent resistance	Solvent: industrial isopropyl Solvent temperature:23°C±5°C Dipping time:5min±0.5min Method 2: (without Sassafras test) Recovery time: 48h	Comply with the specifications in the product size table		
	Final measurement	Appearance inspection Cap. measuring frequency: 1kHz Tangent of loss angle: CN≪1µF: 10kHz; CN>1µF: 1kHz	No visible damage Cap.: $ \Delta C /C \leq 5\%$ Tangent of loss angle: $CN \leq 1\mu F: \leq 0.008 (10 \text{ kHz})$ $CN > 1\mu F: \leq 0.005 (1 \text{ kHz})$		

Group		Item	Conditions of test	Performance requirements	
		4.1Visual examination	Dimensional and the second second	No visible damage & legible markir	
	Initial	4.1Dimension s(Gauging)	Dimensions: gauging by vernier caliper Measuring frequency:	Fit detail specification	
	measur ement	4.2.2Capacit ance 4.2.3Tangent of loss angle	Capacitance: 1kHz Tangent of loss angle: C _N ≤1µF: 10kHz; C _N >1µF: 1kHz	Within specified tolerance	
	4.5 Sold	erability	Methods: Groove welding Ta, Method 1 Solder temperature: 245°C±5°C Immersion time: 2.0s±0.5s	Good quality of tinning	
	4.20 Solvent r of the ma		Solvent: Industrial isopropanol. Solvent temperature:23°C±5°C Dipping time: 5min±0.5min Condition: scrub Scrub material: absorbent cotton Reverting time: No	The marking shall be legible	
	4.6 Rapic of tempe	-	$T_{A}^{=}-40^{\circ}C, T_{B}^{=}+110^{\circ}C$ 5 cycles, Duration: t=30min	No visible damage	
C1B	4.7 Vibr (straigh	ation	Amplitude 0.75mm or acceleration 98m/s ² (whichever is the smaller severity), f: 10Hz to 500Hz.Three directions, 2h for each direction, total 6h.	No visible damage	
	4.8 Bump (straight lead)		4 000 times, Acceleration: 400m/s ² , Pulse duration, 6ms	No visible damage	
	Final me	hal measurement Appearance inspection Cap. measuring frequency: 1kHz		No visible damage Cap.: ΔC /C≤5%	
		Initial measureme nt	According to the conditions of Group C1A and C1B	According to the requirements of Group C1A and C1B	
		Dry heat	+110°C, 16h		
		Damp heat, Cyclic	Test Db, Severity: b, the first cycle Temperature: +55°C, 24h each cycle, Method 2	No visible damage & legible markir	
		Cold	-40°C, 2h		
C1	4.11 Climatic	Damp heat, Cyclic	Test Db, Severity b, the other cycles Temperature: +55°C, 24h each cycle, Method 2		
	sequence	Final measureme nt	Measuring frequency: Capacitance: 1kHz Tangent of loss angle: $C_N \leq 1\mu$ F: 10kHz; $C_N > 1\mu$ F: 1kHz Voltage proof between terminals: 4.3U _R (d.c.),1min Voltage proof between terminal and housing: 2UR+1500V(a.c.),1min Insulation resistance test voltage: 100Vd.c.	Cap.: $ \Delta C /C \leq 5\%$ Increase of tg δ : $C_N \leq 1\mu$ F: $\leq 0.008 (10$ kHz) $C_N > 1\mu$ F: $\leq 0.005 (1$ kHz) No permanent breakdown or flashover I.R.: $\geq 50\%$ of the rated value	





Grou p	Item	Conditions of test	Performance requirements			
	4.12 Damp heat, steady state	Temperature: 40°C ±2°C Humidity: 93±3%RH Duration: 56 days	No visible damage & legible marking Cap.: $ \Delta C /C \leq 5\%$ Increase of tgo: $C_N \leq 1\mu F$: $\leq 0.008 (10 \text{ kHz})$			
C2	Final measurement	Tangent of loss angle: C _N ≤1μF: 10kHz; C _N >1μF: 1kHz Voltage proof between terminals: 4.3UR(d.c.),1min Voltage proof between terminal and housing: 2UR+1500V(a.c.),1min Insulation resistance test voltage: 100Vd.c.	$C_N \leq 1\mu$ F: $\leq 0.008 (10$ kHz) $C_N > 1\mu$ F: $\leq 0.005 (1$ kHz) No permanent breakdown or flashover I.R.: $\geq 50\%$ of the rated value			
	Initial measurement	Measuring frequency capacitance: 1kHz Tangent of loss angle: CN≤1µF: 10kHz; CN>1µF: 1kHz Insulation resistance test voltage: 100Vd.c.	Within specified tolerance			
C3	4.13 Impulse voltage	Each individual capacitor shall be subjected to 24 impulses of the same polarity, the time between impulses shall not be less than 10S, and the peak value of the voltage impulse: 2.5kV (suitable for $C_N \leq 1\mu$ F; When $C_N > 1\mu$ F, the capacitor can endure pulse voltage value is 2.5/ $\sqrt{C_N}$ kV)	There are three or more waveforms which indicate that no self-heating breakdown have occurred when it is monitored by the monitor (when any three successive impulses are shown by the monitor to have a wave form indicating that no self-healing breakdown have taken place the impulses can be stopped)			
	4.14 Endurance	Temperature : +110°C Duration : 1000h Voltage: at 1.25 U _R	No visible damage & legible marking Cap.: ΔC /C≤10% Increase of tgδ:			
	Final measurement	Tangent of loss angle: CN≤1μF: 10kHz; CN>1μF: 1kHz Voltage proof between terminals: 4.3UR(d.c.),1min Voltage proof between terminal and housing: 2UR+1500V(a.c.),1min	$C_N \leqslant 1\mu$ F: $\leqslant 0.008 (10$ kHz) $C_N > 1\mu$ F: $\leqslant 0.005 (1$ kHz) No permanent breakdown or flashover I.R.: $\geqslant 50\%$ of the rated value			



Group	Item	Conditions of test	Performance requirements
C4	4.15 Charging and discharging	Times: 10 000 Duration of charging: 0.5s Duration of discharging: 0.5s Charging voltage: $\sqrt{2}U_R$ Vd.c. Charging resistance: 220/C _N (Ω) or the current $\leq 1.0A$ (whichever is the minor) Discharging resistance: $R = \frac{\sqrt{2}U_R}{C_N \times \frac{dU}{dt}} (\Omega)$ C_N : Capacitance (μ F) $dU/dt(V/us)$: 100V/ μ s	Cap.: $ \Delta C /C \le 10\%$ Increase of tg\delta: $C_N \le 1\mu F: \le 0.008 (10 \text{ kHz})$ $C_N > 1\mu F: \le 0.005 (1 \text{ kHz})$ I.R.: $\ge 50\%$ of the rated value
C6	4.17 Passive flammability	Needle flame testThe category of flammability: BExpose time: 1 timeCapacitor VolumeExposing time250 <v(mm³)≤500< td="">20s500<v(mm³)≤1750< td="">30sV(mm³)>175060s</v(mm³)≤1750<></v(mm³)≤500<>	The flaming time of each capacitor shall not go beyond 10s after it is taken apart from the flame. Drop of each capacitor caused by flame shall not fire the tissue below.
C7	4.18 Active flammability	The specimens shall be individually wrapped in at least 1,but not more than 2,complete layers of cheesecloth, the cheesecloth shall be untreated pure cotton cloth. Each sample shall be subjected to 20 discharged, the interval between successive discharges shall be 5s. $U_i=2.5kV_0^{+7}$ % U_R be applied and be maintained for 120_0^{+10} s after the last discharge.	The cheese cloth around the capacitor shall not burn with a flame.



 ■ Marking (For example)

 ◇▷MKP62 305~X2

 474K
 40/110/56/B

 ✓▷ MKP62 305~685M X2

 40/110/56/B
 L50002

 ✔○▲
 ✔○▲

 Fig.1 P≤27.5mm
 Fig.2 P>27.5mm

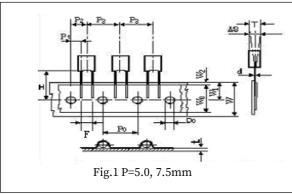
Marking Introduction

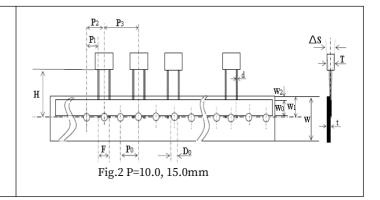
Sign	explain	Sign	explain
$\triangleleft \triangleright$	Brand	10 201	ENEC-VDE Approval
MKP62	Туре		CQC Approval
305~	Rated voltage	c AJ us	UL,CUL Approval
X2	Class	40/110/56/B	Climate category / Passive Flammability Class
474K 685M	Rated capacitance and tolerance	L50002	Lot No.



■ Taping specification for box-type capacitors

▲ Outline Drawing





▲ Taping Dimensions(mm)

Technology index			Di	mension	S	
title	Code	P=5.0	P=7.5	P=10.0	P=15.0	Toleranc e
Taping type	—	Fig 1	Fig 1	Fig2	Fig 2	
Part number Digit12-15	Ammo- pack	A201	A301	A405	A605	
Taping pitch	P ₃	12.7	12.7	25.4	25.4	±1.0
Feed hole pitch	P_0	12.7	12.7	12.7	12.7	±0.3
Center of wire	P_1	3.85	2.6	7.7	5.2	±0.7
Center of body	P_2	6.35	6.35	12.7	12.7	±1.3
Pitch of taping wire	F ^{**}	5.0	7.5	10.0	15.0	+0.6 -0.1
Component alignment	$\triangle S$	0	0	0	0	±2.0
Height of component from tape center	H***	18.5	18.5	18.5	18.5	±0.5
Carrier tape width	W	18.0	18.0	18.0	18.0	+1.0 -0.5
Hold down tape width	\mathbf{W}_{0}	6min	10min	10min	10min	
Hole position	W_1	9.0	9.0	9.0	9.0	± 0.5
Hold down tape sition	W ₂	3max	3max	3max	3max	
Feed hole dia.	D_0	4.0	4.0	4.0	4.0	±0.2
Tape thickness	t	0.7	0.7	0.7	0.7	±0.2

Note: * P₀=15mm is also available; **F can be other lead spacing; ***H=16.5mm is available;

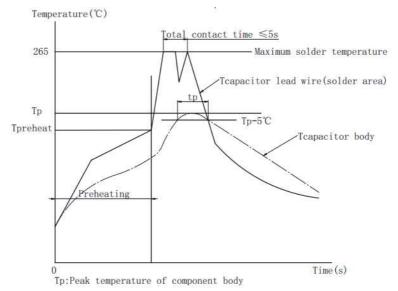


Soldering suggestions

- ▲ Manual soldering
 - Max. temperature: 350°C, time: 3s
- \blacktriangle Wave soldering

There are many factors affecting the heating of film capacitor during the wave soldering process, such as: preheating temperature, preheating time, soldering temperature, soldering time, other heat sources influence and so on.

The typical soldering profile is as below:



A Because overheating could damage the capacitor, we recommend paying attention to the maximum capacitor temperature and heating time, use temperature sensor to detect the maximum capacitor body temperature.

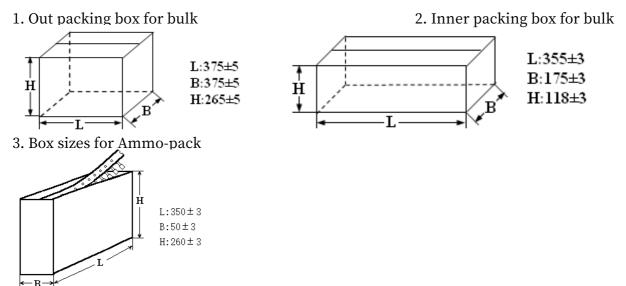
Temperature sensor position I 1 Φd Ρ W

Note: If re-working or dipping twice is necessary, it should be done after the capacitor returns to the normal temperature.

Temperature sensor position (Tcapacitor body)	The capacitor body surface of lead side, capacitor height position from PCB: h1=2 \sim 3mm		
Maximum capacitor body temperature	OPP film P≤15mm	OPP film P>15mm	PET film
Tp(°C)	115	120	125
Maximum capacitor lead wire temperature (°C)	265	265	265
Maximum capacitor body heating time tp=Tp-5°C	Page 12 of 13	30s	



■ Packing box sizes(mm)(example)



■ Storage conditions

▲ It must be noted that the solderability of the terminals may be deteriorated when stored in an atmosphere filled with moisture, dust, or a reactive oxidizing gas.(hydrogen chloride, hydrogen sulfide, sulfuric acid,etc.)

▲ It shouldn't be located in particularly high temperature and high humidity, it must submit to the following conditions(unchanging primal package):

Temperature: -40 °C to 35 °C

Humidity: Average per year ≤70%RH;

For 30 full days randomly distributed throughout the year≤80%RH Storage time for tinned lead wire: (from the date marked on the capacitor's body or the

label glued to the package) :

Bulk(packed with plastic bag): ≤ 24 months ;

Taping and line up: ≤ 12 months

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Safety Capacitors category:

Click to view products by FARATRONIC manufacturer:

Other Similar products are found below :

B32022B3223K026 B32912A3104K026 46KI3470DQM1K B32913A3154K B81123C1102M003 MKPY2-.02230020P15 46KN333000M1M 46KN422000P0M DE1E3KX222MJ4BN01F 46KR422000M1K HUB2200-S 46KF268000M1M 46KI3150NDM2M PHE840MD6220MD13R30 PHE840MY6470MD14R06 PHE845VD5470MR06 R463N4100ZAM1K MKPX2R-1/400/10P27 YP500101K040B20C2P YU0AH222M090DAMD0B L\$1808N102K302NX080TM CY1471KE1IEB46X2A2 CY1222ME5IEE4802A2 MPX474K31DTEV158G0 CY1471ME19EE45W2A2 MPX104K31D2KN158HF MPX224K31D2KN158G0 PX104K2W1502 YU1AH222M090DASD0H C47S1472K60C000 MP2224K32C5J6LC H102M050FQ55250L750A MP2474K32D6R8LC MP2224K32C3J6LC MP2104K32C3J6LC PX334K2C1006 YU0AC222M080L20C7B MP2473K27B2X6LC MP2224K32D4J8LC MP2684K32D6T8LC ST3Y1Y5U332M500VAC ST3Y1Y5V472M500VAC MP2474K32D4X8LC MP2474K32D4J8LC YU0AH332M110L4EB0B CY1681ME1IEE45S2A2 Y1220J-E1I-B4-AC400V Y1120K-E1I-B4-AC400V MP2154K32D2R8LC ST1Y1Y5V222M500VAC