SPECIFICATION FOR APPROVAL

File No.: O/FRK 0.GS.E.C43-C16

Product Name	Metallized Polypropylene Film Interference Suppression Capacitor （Class Y2,300Vac）
Product Type	MKP63
Product Code	C43
Customer	
Customer Code	
Issue Date	2020-05

Xiamen Faratronic Co. Ltd.			Approved by Customer
Drafted	Checked	Approved	

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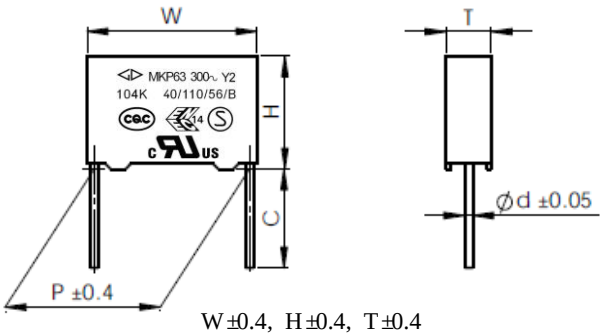
Version history

Current version	Date	Author	Change description

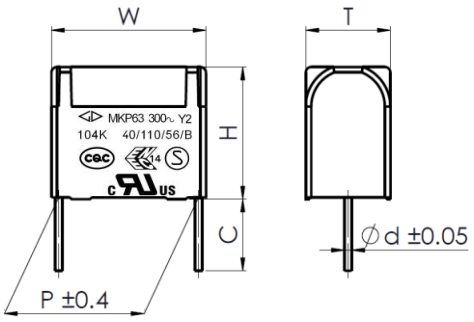
Metallized polypropylene film interference suppression capacitor（Class Y2, 300Vac）

■Outline Drawing



W±0.4, H±0.4, T±0.4

Square-bottom



W±0.4, H±0.4, T±0.4

Arc-bottom

■ Features

- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- Widely used in across-the-line, line-by-pass, antenna Coupling interference suppression circuit, etc.

■ Safety Approvals

●	CQC	CQC	IEC 60384-14:2013+AMD1:2016, Y2, 300Vac/1000Vdc , 0.001μF～1.0μF , 40/110/56/B Certificate No.：CQC04001009958
●	ENEC	ENEC-SEMKO	EN 60384-14:2013+A1:2016, Y2, 300 Vac/1000Vdc, 0.001μF～1.0μF, 40/110/56/B Certificate No.：SE/0366-2D
●	cULus	UL/CUL	UL60384-14:2016，CSA E60384-14:14, Y2, 300Vac/1000Vdc, 0.001μF~1.0μF, 40/110/56/B File No.: E186600, CCN: FOWX2/8
●	KC	KC	K60384-14(2006-12)，Y2, 300Vac, 0.001μF~0.1μF, 40/110/56/B Certificate No.: SU03060-12005

■ Specifications

Class	Class Y2		
Climatic Category / Passive Flammability Category	40/110/56/B		
Operating Temperature Range	-40℃ ~ +110℃		
Rated Voltage (U_R)	300Vac, 50/60Hz		
Rated DC voltage	1 000Vdc		
Capacitance Range	0.0010μF~1.0μF		
Capacitance Tolerance	±10%(K), ±20%(M)		
Voltage Proof	Between Terminals:	2 000Vac(2s) or	4 000Vdc(2s) C_N≤0.33μF 3 700Vdc(2s) C_N>0.33μF
	Between Terminals To Case:	2 500Vac(1min)	
Insulation Resistance	R≥15 000MΩ , C_N≤0.33μF RC_N≥5 000s, C_N>0.33μF	(20℃, 100V ,1min)	
Dissipation Factor	≤30×10^{-4}(1kHz,20℃)	≤40×10^{-4}(10kHz,20℃)	

■ Part number system

The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	4	3												

Digit 1 to 3 Series code

C43=MKP63

Digit 4 to 5 A.C. rated voltage

Q1=300V

Digit 6 to 8 Rated capacitance value

For example : 103=10×10^3 pF= 0.01μF

Digit 9 Capacitance tolerance

K=±10%, M=±20%

Digit 10 Pitch

3=7.5mm 4=10mm 6=15mm

9=22.5mm B=27.5mm F=37.5mm

Digit 11 Internal use

Digit 12 to 15 Lead form and packaging code

Table 1 Lead form and packaging code

Digit 12		Digit 13		Digit 14		Digit 15	
code	explanation	code	explanation	code	explanation	code	explanation
A	ammo-pack	3 4 6	F=7.5mm F=10.0mm F=15.0mm	0	Straight	1 5	each cap. among two consecutive holes P3=12.7mm,H=18.5mm (For P=7.5mm) P3=25.4mm;H=18.5mm (For pitch=10/15mm) (Detail parameter refer to page 11)
C	straight lead "C" in the figure above	code	explanation			0	Length tolerance ±0.5mm or standard length
		00 45	standard lead length (18mm~26mm) lead length 4.5mm				
D E M	Insulated stranded leads Insulated solid leads Insulated leads and box with mounting foot	C5 K0 K2 L0	35mm 100mm 120mm 200mm	Note 1：This length includes the stripping parts. Note 2：Normally, for P ≥ 27.5 Caps can choice Insulated leads.		1 2 3 4	Length tolerance -5 mm～0 mm Length tolerance 0 mm～+5 mm Length tolerance 0 mm～+10mm Length tolerance ±5 mm
Note: Recommend short lead due to long lead could deform easily.							

■ Dimensions(mm)

Standard type

300Vac						
C_N (μF)	W	H	T	P	d	Part number
0.0010	10.5	9.0	4.0	7.5	0.6	C43Q1102-30****
0.0012	10.5	9.0	4.0	7.5	0.6	C43Q1122-30****
0.0015	10.5	9.0	4.0	7.5	0.6	C43Q1152-30****
0.0018	10.5	9.0	4.0	7.5	0.6	C43Q1182-30****
0.0022	10.5	9.0	4.0	7.5	0.6	C43Q1222-30****
0.0027	10.5	9.0	4.0	7.5	0.6	C43Q1272-30****
0.0033	10.5	11.0	5.0	7.5	0.6	C43Q1332-30****
0.0039	10.5	11.0	5.0	7.5	0.6	C43Q1392-30****
0.0047	10.5	12.0	6.0	7.5	0.6	C43Q1472-30****
0.0056	10.5	12.0	6.0	7.5	0.6	C43Q1562-30****
0.0010	13.0	9.0	4.0	10.0	0.6	C43Q1102-40****
0.0012	13.0	9.0	4.0	10.0	0.6	C43Q1122-40****
0.0015	13.0	9.0	4.0	10.0	0.6	C43Q1152-40****
0.0018	13.0	9.0	4.0	10.0	0.6	C43Q1182-40****
0.0022	13.0	9.0	4.0	10.0	0.6	C43Q1222-40****
0.0027	13.0	9.0	4.0	10.0	0.6	C43Q1272-40****
0.0033	13.0	9.0	4.0	10.0	0.6	C43Q1332-40****
0.0039	13.0	9.0	4.0	10.0	0.6	C43Q1392-40****
0.0047	13.0	11.0	5.0	10.0	0.6	C43Q1472-40****
0.0056	13.0	11.0	5.0	10.0	0.6	C43Q1562-41****
0.0068	13.0	11.0	5.0	10.0	0.6	C43Q1682-41****
0.0068	13.0	7.5	9.5	10.0	0.6	C43Q1682-4C****
0.0082	13.0	12.0	6.0	10.0	0.6	C43Q1822-40****
0.010	13.0	12.0	6.0	10.0	0.6	C43Q1103-40****
0.015	13.0	12.0	6.0	10.0	0.6	C43Q1153-4S****
0.0022	17.5	9.5	5.0	15.0	0.6	C43Q1222-60****
0.0027	17.5	9.5	5.0	15.0	0.6	C43Q1272-61****
0.0033	17.5	9.5	5.0	15.0	0.6	C43Q1332-61****
0.0039	17.5	9.5	5.0	15.0	0.6	C43Q1392-61****
0.0047	17.5	9.5	5.0	15.0	0.6	C43Q1472-61****
0.0056	17.5	9.5	5.0	15.0	0.6	C43Q1562-61****
0.0068	17.5	9.5	5.0	15.0	0.6	C43Q1682-61****
0.0082	17.5	9.5	5.0	15.0	0.6	C43Q1822-61****
0.010	17.5	9.5	5.0	15.0	0.6	C43Q1103-6S****
0.012	17.5	11.0	5.0	15.0	0.6	C43Q1123-6S****
0.015	17.5	11.0	5.0	15.0	0.6	C43Q1153-6S****
0.018M	17.5	11.0	5.0	15.0	0.6	C43Q1183M6S****
0.018K	17.5	12.0	6.0	15.0	0.6	C43Q1183K6S****
0.022	17.5	12.0	6.0	15.0	0.6	C43Q1223-6S****
0.027M	17.5	12.0	6.0	15.0	0.6	C43Q1273M6S****
0.027K	17.5	12.0	7.0	15.0	0.6	C43Q1273K6S****
0.033	17.5	13.5	7.5	15.0	0.6	C43Q1333-6S****
0.033	17.5	12.5	9.0	15.0	0.6	C43Q1333-6A****
0.039	17.5	13.5	7.5	15.0	0.6	C43Q1393-6S****
0.039	17.5	12.5	9.0	15.0	0.6	C43Q1393-6A****
0.047	17.5	14.5	8.5	15.0	0.6	C43Q1473-6S****
0.047	17.5	12.0	13.0	15.0	0.8	C43Q1473-6C****
0.056	17.5	16.0	10.0	15.0	0.8	C43Q1563-6S****
0.068	17.5	16.0	10.0	15.0	0.8	C43Q1683-6S****
0.082	17.5	19.0	11.0	15.0	0.8	C43Q1823-6S****
0.033	26.5	15.0	6.0	22.5	0.8	C43Q1333-90****
0.039	26.5	15.0	6.0	22.5	0.8	C43Q1393-90****
0.047	26.5	15.0	6.0	22.5	0.8	C43Q1473-9S****
0.056	26.5	15.0	6.0	22.5	0.8	C43Q1563-9S****
0.068M	26.5	15.0	6.0	22.5	0.8	C43Q1683M9S****
0.068K	26.5	16.0	7.0	22.5	0.8	C43Q1683K9S****
0.082	26.5	16.0	7.0	22.5	0.8	C43Q1823-9S****

300Vac						
C_N (μF)	W	H	T	P	d	Part number
0.10	26.5	17.0	8.5	22.5	0.8	C43Q1104-9S****
0.12	26.5	17.0	8.5	22.5	0.8	C43Q1124-9S****
0.15	26.5	18.5	10.0	22.5	0.8	C43Q1154-9S****
0.18	26.5	20.0	11.0	22.5	0.8	C43Q1184-9S****
0.22	26.5	22.0	12.0	22.5	0.8	C43Q1224-9S****
0.27	26.5	23.0	13.5	22.5	0.8	C43Q1274-9S****
0.33	26.5	24.5	15.5	22.5	0.8	C43Q1334-9S****
0.33	26.5	29.5	14.5	22.5	0.8	C43Q1334-9A****
0.39M	26.5	29.5	14.5	22.5	0.8	C43Q1394M9S****
0.10	32.0	18.0	9.0	27.5	0.8	C43Q1104-B0****
0.12	32.0	18.0	9.0	27.5	0.8	C43Q1124-B0****
0.15	32.0	18.0	9.0	27.5	0.8	C43Q1154-BS****
0.15	32.0	12.0	18.0	27.5	0.8	C43Q1154-BC****
0.18	32.0	20.0	11.0	27.5	0.8	C43Q1184-BS****
0.22	32.0	20.0	11.0	27.5	0.8	C43Q1224-BS****
0.22M	32.0	12.0	18.0	27.5	0.8	C43Q1224MBC****
★0.22K	32.0	12.0	22.0	27.5	0.8	C43Q1224KBC****
0.27M	32.0	20.0	11.0	27.5	0.8	C43Q1274MBS****
0.27K	32.0	22.0	13.0	27.5	0.8	C43Q1274KBS****
0.33M	32.0	22.0	13.0	27.5	0.8	C43Q1334MBS****
0.33K	32.0	25.0	13.0	27.5	0.8	C43Q1334KBS****
0.33K	32.0	24.5	15.0	27.5	0.8	C43Q1334KBA****
0.33M	32.0	15.0	21.0	27.5	0.8	C43Q1334MBC****
0.39	32.0	24.5	15.0	27.5	0.8	C43Q1394-BA****
0.39	32.0	28.0	14.0	27.5	0.8	C43Q1394-BS****
0.47M	32.0	24.5	15.0	27.5	0.8	C43Q1474MBA****
0.47M	32.0	28.0	14.0	27.5	0.8	C43Q1474MBS****
0.47K	32.0	30.0	16.0	27.5	0.8	C43Q1474KBS****
0.47K	32.0	28.0	17.0	27.5	0.8	C43Q1474KBA****
★0.47	32.0	16.0	27.5	27.5	0.8	C43Q1474-BC****
0.56	32.0	30.0	16.0	27.5	0.8	C43Q1564-BS****
0.56	32.0	28.0	17.0	27.5	0.8	C43Q1564-BA****
0.68M	32.0	29.0	19.0	27.5	0.8	C43Q1684MBA****
0.68K	32.0	30.0	21.0	27.5	0.8	C43Q1684KBA****
0.68	32.0	33.0	18.0	27.5	0.8	C43Q1684-BS****
★0.68	32.0	18.5	31.0	27.5	0.8	C43Q1684-BC****
★0.82M	32.0	18.5	31.0	27.5	0.8	C43Q1824MBC****
0.82M	32.0	33.0	18.0	27.5	0.8	C43Q1824MBS****
0.82K	32.0	37.0	22.0	27.5	0.8	C43Q1824KBS****
1.0	32.0	37.0	22.0	27.5	0.8	C43Q1105-BS****
0.33	41.0	22.0	11.0	37.5	1.0	C43Q1334-FS****
0.39M	41.0	22.0	11.0	37.5	1.0	C43Q1394MFS****
0.39K	41.0	24.0	13.0	37.5	1.0	C43Q1394KFS****
0.47	41.0	24.0	13.0	37.5	1.0	C43Q1474-FS****
0.47	42.0	15.0	24.0	37.5	1.0	C43Q1474-FC****
0.56	41.0	26.0	15.0	37.5	1.0	C43Q1564-FS****
0.56	42.0	28.0	14.0	37.5	1.0	C43Q1564-FA****
0.68M	41.0	26.0	15.0	37.5	1.0	C43Q1684MFA****
0.68M	42.0	28.0	14.0	37.5	1.0	C43Q1684MFS****
0.68K	41.0	30.0	16.0	37.5	1.0	C43Q1684KFS****
0.68	42.0	**19.0**	24.0	37.5	1.0	C43Q1684-FC****
0.82	41.0	30.0	16.0	37.5	1.0	C43Q1824-FS****
0.82M	42.0	19.0	24.0	37.5	1.0	C43Q1824**M**FC****
1.0M	41.0	32.0	17.0	37.5	1.0	C43Q1105MFS****
1.0K	41.0	33.5	18.5	37.5	1.0	C43Q1105KFS****

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

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

3. "★" = Arc bottom of the outer shell.

■ Dimensions(mm)

High performance type

300Vac							300Vac						
C_R (μF)	W	H	T	P	d	Part number	C_R (μF)	W	H	T	P	d	Part number
0.0068	17.5	11.0	5.0	15.0	0.8	C43Q1682-60****	0.15	32.0	20.0	11.0	27.5	0.8	C43Q1154-B0****
0.0082	17.5	11.0	5.0	15.0	0.8	C43Q1822-60****	0.18	32.0	20.0	11.0	27.5	0.8	C43Q1184-B0****
0.010	17.5	11.0	5.0	15.0	0.8	C43Q1103-60****	0.22	32.0	22.0	13.0	27.5	0.8	C43Q1224-B0****
0.012	17.5	12.0	6.0	15.0	0.8	C43Q1123-60****	0.27M	32.0	24.5	15.0	27.5	0.8	C43Q1274MB0****
0.015	17.5	12.0	6.0	15.0	0.8	C43Q1153-60****	0.27K	32.0	28.0	14.0	27.5	0.8	C43Q1274KB0****
0.018	17.5	12.0	6.0	15.0	0.8	C43Q1183-60****	0.33	32.0	28.0	14.0	27.5	0.8	C43Q1334-B0****
0.022	17.5	13.5	7.5	15.0	0.8	C43Q1223-60****	0.39	32.0	33.0	18.0	27.5	0.8	C43Q1394-B0****
0.027M	17.5	13.5	7.5	15.0	0.8	C43Q1273M60****	0.47	32.0	33.0	18.0	27.5	0.8	C43Q1474-B0****
0.027K	17.5	14.5	8.5	15.0	0.8	C43Q1273K60****	0.56	32.0	33.0	18.0	27.5	0.8	C43Q1564-B0****
0.033	17.5	14.5	8.5	15.0	0.8	C43Q1333-60****	0.68K	32.0	37.0	22.0	27.5	0.8	C43Q1684KB0****
0.039M	17.5	14.5	8.5	15.0	0.8	C43Q1393M60****	0.33	41.0	24.0	13.0	37.5	1.0	C43Q1334-F0****
0.039K	17.5	16.0	10.0	15.0	0.8	C43Q1393K60****	0.39	41.0	24.0	13.0	37.5	1.0	C43Q1394-F0****
0.047	17.5	16.0	10.0	15.0	0.8	C43Q1473-60****	0.47K	41.0	26.0	15.0	37.5	1.0	C43Q1474KF0****
0.056	17.5	19.0	11.0	15.0	0.8	C43Q1563-60****	0.56	41.0	30.0	16.0	37.5	1.0	C43Q1564-F0****
0.047	26.5	15.0	6.0	22.5	0.8	C43Q1473-90****	0.68	41.0	30.0	16.0	37.5	1.0	C43Q1684-F0****
0.056	26.5	16.0	7.0	22.5	0.8	C43Q1563-90****	0.82	41.0	33.5	18.5	37.5	1.0	C43Q1824-F0****
0.068	26.5	17.0	8.5	22.5	0.8	C43Q1683-90****	1.0	41.0	37.0	22.0	37.5	1.0	C43Q1105-F0****
0.082	26.5	17.0	8.5	22.5	0.8	C43Q1823-90****							
0.10	26.5	18.5	10.0	22.5	0.8	C43Q1104-90****							
0.12	26.5	18.5	10.0	22.5	0.8	C43Q1124-90****							
0.15	26.5	22.0	12.0	22.5	0.8	C43Q1154-90****							
0.18	26.5	22.0	12.0	22.5	0.8	C43Q1184-90****							
0.22	26.5	24.5	15.5	22.5	0.8	C43Q1224-90****							

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

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

3. "★" = Arc bottom of the outer shell.

■ Maximum permissible voltage change per unit of time

Rated Voltage（Vac）	Max dV/dt(V/us) at 425Vdc					
	P=7.5mm	P=10mm	P=15mm	P=22.5mm	P=27.5mm	P=37.5mm
300	800	800	600	500	400	300

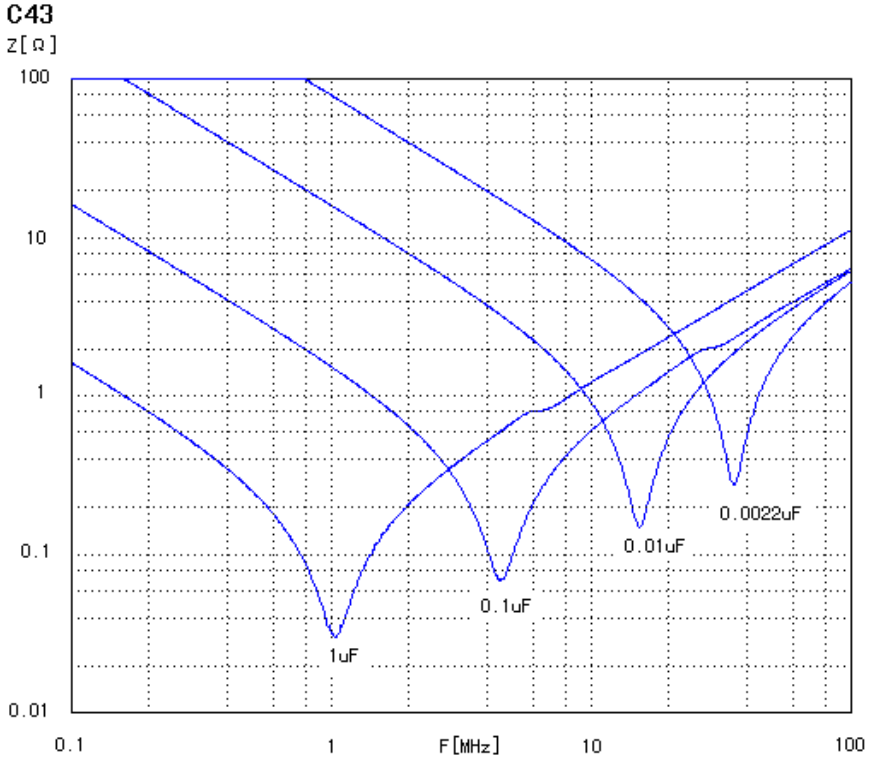
Note:

1. Rated voltage pulse slope $(dV/dt)_R$ at rated voltage.
2. If the working voltage(U) is lower than the rated voltage(U_R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U_R/U.

■ Impedance Vs. Frequency

TYPICAL GRAPHS

Z=f(f) Typical values



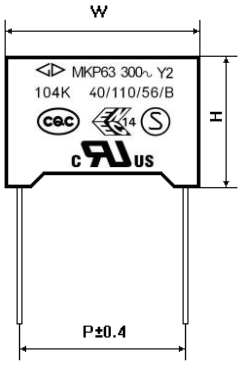
■ Test Method And Performance

No.	Item		Performance	Test Method (IEC 60384-14)
1	4.5 Solderability		Good quality of tinning	Solder temperature: 245˚C ±5˚C Immersion time: 2.0s±0.5s
2	4.3 Terminal strength (straight lead)		There shall be no visible damage	Tense: 0.50<d≤0.80, 10N 0.80<d≤1.25, 20N Bend: 0.50<d≤0.80, 5N 0.80<d≤1.25, 10N The terminals shall be bent 2 times in each direction
3	4.4 Resistance to solder heat		There shall be no visible damage ΔC/C ≤±5%(relative to the initial value)	Solder temperature:260˚C±5˚C Immersion time: 10s±1s
4	4.20 Solvent resistance of the marking		The marking shall be legible	Solvent: Industrial isopropanol. Solvent temperature:23˚C±5˚C Dipping time: 5min±0.5min Condition: scrub Scrub material: absorbent cotton Reverting time: No
5	4.2 Initial measurement		Capacitance, Tgδ	
	4.6 Rapid change of temperature		There shall be no evidence of deterioration.	T_A=-40˚C, T_B =+110˚C 5 cycles Duration: t=30min
	4.7 Vibration(straight lead)		There shall be no evidence of deterioration.	Amplitude 0.75mm or acceleration 100m/s^2 (whichever is the smaller severity), f: 10Hz to 500Hz.Three directions, 2h foreach direction, total 6h.
	4.8 Bump(straight lead)		There shall be no evidence of deterioration.	4 000 times, Acceleration: 400m/s^2, Pulse duration, 6ms
	Final measurement		There shall be no visible damage ΔC/C ≤±5%(relative to the initial value)	
6	4.11 Climate sequence	Initial measurement		
		Dry heat		+110℃, 16h
		Damp heat, Cyclic		Test Db, Severity: b, the first cycle
		Cold		-40℃, 2h
		Damp heat, cyclic other		Test Db, Severity b, the other cycles,
		Final measurement	There shall be no visible damage, legible marking ΔC/C ≤±5%(relative to the initial value) Increase of tgδ: ≤0.008 (10kHz) Dielectric strength : there shall be no permanent breakdown or flashover I.R.: ≥ 50% of the rated value	

No.	Item	Performance	Test Method (IEC 60384-14)
7	4.12 Damp heat steady state	There shall be no visible damage, legible marking ΔC/C ≤±5%(relative to the initial value) Increase of tgδ: ≤0.008 (10kHz) Dielectric strength : there shall be no permanent breakdown or flashover I.R.: ≥ 50% of the rated value	Temperature:40˚C ±2˚C Humidity: 93±3%RH Duration: 56 days
8	4.13 Impulse voltage	There are three or more waveforms which indicate that no self-heating breakdown have occurred when it is monitored by the monitor	Each individual capacitor shall be subjected to 24 impulses of the same polarity (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), the time between impulses shall not be less than 10s, and the peak value of the voltage impulse: 5.0kV
9	4.14 Endurance	There shall be no visible damage, legible marking ΔC/C≤±10%(relative to the initial value) Increase of tgδ: ≤0.008 (10kHz) Dielectric strength : There shall be no breakdown or flashover I.R. : ≥ 50% of the rated value	+110˚C, 1.7U_RVa.c. 1 000h The voltage shall be subjected to 1 000Vrms for 0.1s every one hour during test.
10	4.15 Charging and discharging	ΔC/C ≤±10%(relative to the initial value) Increase of tgδ: C_N≤1μF: ≤0.008 (10kHz) I.R.: ≥ 50% of the rated value	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 ≤1.0A (whichever is the minor) Discharging resistance: $R=\frac{\sqrt{2}U_R}{C_N\times\frac{dU}{dt}}(\Omega)$ C_N: Capacitance (μF) dU/dt(V/us) : 100V/μs
11	4.17 Passive flammability	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.	Needle flame test The category of flammability: B Expose time: 1 time Capacitor Volume Exposing time 250<V(mm^3)≤500 20s 500<V(mm^3)≤1750 30s V(mm^3)>1750 60s

No.	Item	Performance	Test Method (IEC 60384-14)
12	4.18 Active flammability	The cheese cloth around the capacitor shall not burn with a flame.	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. Each sample shall be subjected to 20 discharged, the interval between successive discharges shall be 5^{+1}_{0} s. U_i=5.0kV$^{+7}_{0}$ % Throughout the test, the $U_R \pm 5\%$ shall be applied across the capacitor under test and shall be maintained for 120^{+10}_{0} s after the last discharge, unless a blown fuse cause an open circuit.

■ Marking（For example）



Marking Introduction:

Sign	explain	Sign	explain
	Brand	40/110/56/B	Climate category / Passive Flammability Class
MKP63	Type		CQC Approval
Y2	Class		ENEC-SEMKO Approval
300~	Rated voltage		UL & CUL Approval
104K	Rated capacitance and tolerance		

■ Taping specification for box-type capacitors

▲ Outline Drawing

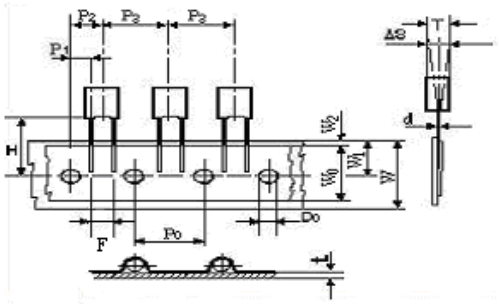


Fig.1 P=5.0, 7.5mm

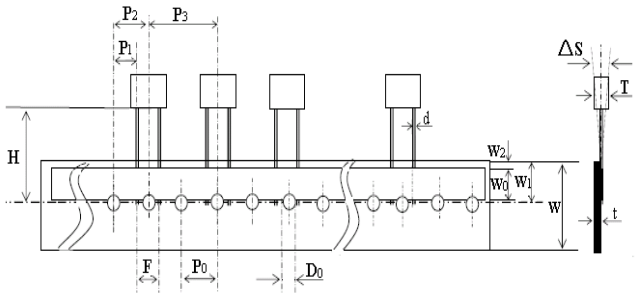


Fig.2 P=10.0, 15.0mm

▲ Taping Dimensions(mm)

Technology index title	Code	Dimensions				
		P=5.0	P=7.5	P=10.0	P=15.0	Tolerance
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	△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	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

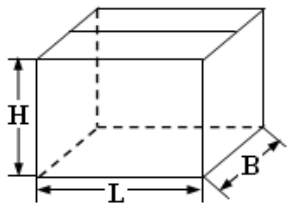
Note: * P_0=15mm is also available;

**F can be other lead spacing;

***H=16.5mm is available;

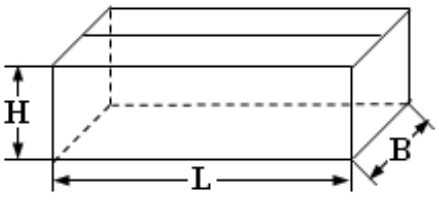
■ Packing box sizes(mm)(example)

1. Out packing box for bulk



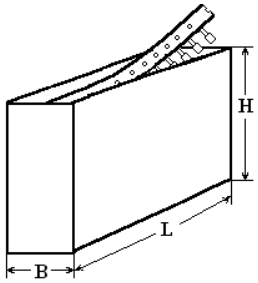
L:375±5
B:375±5
H:265±5

2. Inner packing box for bulk



L:355±3
B:175±3
H:118±3

3. Box sizes for Ammo-pack



L:350±3
B:50±3
H:260±3

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