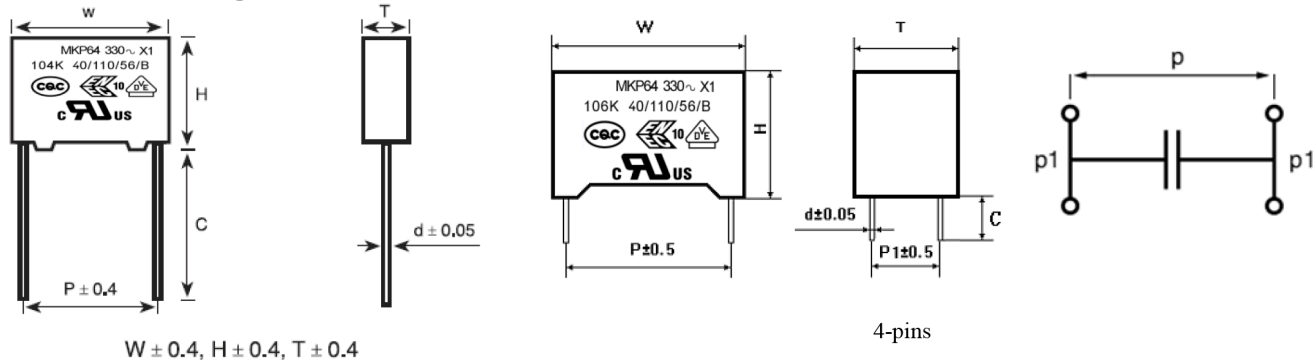




SPECIFICATION FOR APPROVAL

Product Name	Metallized Polypropylene Film Interference Suppression Capacitor (Class X1: 330Vac)
Product Type	MKP64
Type Code	C44
Product Code	
Customer	
Customer Code	
Issue Date	2015-9

Metallized polypropylene film interference suppression capacitor (Class X1, 330Vac)
■ Outline Drawing

■ Features

- Metallized polypropylene structure
- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- Used in across-the-line, interference suppression circuit.
(Not for use in series with the mains)

■ Safety Approvals

●		CQC	GB/T 14472-1998, X1, 330Vac, 0.0010μF~15.0μF, 40/110/56/B Certificate No.: CQC06001016943
●		ENEC-VDE	EN 60384-14:2005, X1, 330Vac, 0.0010μF~15.0μF, 40/110/56/B Certificate No.: 40021937
●		UL/CUL	UL60384-14:2009, CSA E60384-14:09, X1, 330Vac, 0.0010μF~15.0μF, 40/110/56/B Certificate No.: E186600, CCN: FOWX2/8

■ Specifications

Class	Class X1		
Climatic Category/Passive Flammability Category	40/110/56/B		
Operating Temperature Range	-40°C ~ +110°C		
Rated Voltage	330Vac, 50/60Hz,		
Maximum continuous DC voltage	760 Vdc		
Capacitance Range	0.010μF~15.0μF		
Capacitance Tolerance	±10%(K), ±20%(M)		
Voltage Proof	Between Terminals:	2 500Vdc(2s)	
	Between Terminals To Case:	2 160Vac (1min)	
Insulation Resistance	$R \geq 15\ 000M\Omega$, $C_N \leq 0.33\mu F$ $RC_N \geq 5\ 000s$, $C_N > 0.33\mu F$ (20°C, 100V, 1min)		
Dissipation Factor	$0.010\mu F < C_N \leq 0.47\mu F$	$\leq 15 \times 10^{-4}$ (1kHz,20°C)	$\leq 30 \times 10^{-4}$ (10kHz,20°C)
	$0.47\mu F < C_N \leq 1.0\mu F$	$\leq 20 \times 10^{-4}$ (1kHz,20°C)	$\leq 40 \times 10^{-4}$ (10kHz,20°C)
	$1.0\mu F < C_N \leq 15.0\mu F$	$\leq 30 \times 10^{-4}$ (1kHz,20°C)	-----

■ Part number system

The 18 digits part number is formed as follow:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

C	4	4															
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Digit 1 to 3 Series code

C44=MKP64

Digit 4 to 5 A.C. rated voltage

R1=330V Q3=310V

Digit 6 to 8 Rated capacitance value

 For example : 103=10×10³ pF= 0.01μF

Digit 9 Capacitance tolerance

K=±10%, M=±20%

Digit 10 Pitch

4=10.0mm 6=15.0mm 9=22.5mm

B=27.5mm F=37.5mm M=52.5mm

Digit 11 Internal use

Digit 12 to 15 Lead form and packaging code

Digit 16 to 18 Internal use

Table1 Lead form and packaging code

Digit 12		Digit 13		Digit 14		Digit 15	
code	explanation	code	explanation	code	explanation	code	explanation
A	ammo-pack	4 6	F=10.0mm F=15.0mm	0	straight	5	P3=25.4mm;H=18.5mm (For pitch=10/15mm)
C	straight lead “C” in the figure above	code	explanation			0	Length tolerance ±0.5mm Or standard length
		00	standard lead length (18mm~26mm)			2	Length tolerance ±0.3mm
		45	lead length 4.5mm				
		32	lead length 3.2mm				
		35	lead length 3.5mm				
1 3 6	P1= 10mm P1= 20mm P1= 5mm	45 55	lead length 4.5mm lead length 5.5mm			0	Length tolerance ±0.5mm or standard length

■ Dimensions(mm)

330Vac							330Vac							330Vac						
C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number
0.010	13.0	9.0	4.0	10.0	0.6	C44R1103-4S*****	0.068	26.5	15.0	6.0	22.5	0.8	C44R1683-9S*****	1.8	32.0	28.0	17.0	27.5	0.8	C44R1185-BS*****
0.012	13.0	9.0	4.0	10.0	0.6	C44R1123-4S*****	0.082	26.5	15.0	6.0	22.5	0.8	C44R1823-9S*****	1.8	32.0	30.0	16.0	27.5	0.8	C44R1185-BA*****
0.015	13.0	9.0	4.0	10.0	0.6	C44R1153-4S*****	0.10	26.5	15.0	6.0	22.5	0.8	C44R1104-9S*****	2.2M	32.0	28.0	17.0	27.5	0.8	C44R1225MBB*****
0.018	13.0	11.0	5.0	10.0	0.6	C44R1183-4S*****	0.12	26.5	15.0	6.0	22.5	0.8	C44R1124-9S*****	2.2	32.0	29.0	19.0	27.5	0.8	C44R1225-BA*****
0.022	13.0	11.0	5.0	10.0	0.6	C44R1223-4S*****	0.15	26.5	15.0	6.0	22.5	0.8	C44R1154-9S*****	2.2	32.0	18.5	31.0	27.5	0.8	C44R1225-BC*****
0.027	13.0	11.0	5.0	10.0	0.6	C44R1273-4S*****	0.18	26.5	15.0	6.0	22.5	0.8	C44R1184-9S*****	2.2	32.0	33.0	18.0	27.5	0.8	C44R1225-BS*****
0.033	13.0	11.0	5.0	10.0	0.6	C44R1333-4S*****	0.22M	26.5	15.0	6.0	22.5	0.8	C44R1224M9S*****	2.7	32.0	37.0	22.0	27.5	0.8	C44R1275-BS*****
0.039	13.0	12.0	6.0	10.0	0.6	C44R1393-4S*****	0.22K	26.5	16.0	7.0	22.5	0.8	C44R1224K9S*****	3.3	32.0	37.0	22.0	27.5	0.8	C44R1335-BS*****
0.047	13.0	12.0	6.0	10.0	0.6	C44R1473-4S*****	0.27	26.5	16.0	7.0	22.5	0.8	C44R1274-9S*****	0.33	41.0	22.0	11.0	37.5	1.0	C44R1334-FS*****
0.056	13.0	13.0	7.0	10.0	0.6	C44R1563-4S*****	0.33	26.5	17.0	8.5	22.5	0.8	C44R1334-9S*****	0.39	41.0	22.0	11.0	37.5	1.0	C44R1394-FS*****
0.068	13.0	14.0	8.0	10.0	0.6	C44R1683-4S*****	0.39M	26.5	17.0	8.5	22.5	0.8	C44R1394M9S*****	0.47	41.0	22.0	11.0	37.5	1.0	C44R1474-FS*****
0.010	17.5	9.5	5.0	15.0	0.6	C44R1103-6S*****	0.39K	26.5	18.5	10.0	22.5	0.8	C44R1394K9S*****	0.56	41.0	22.0	11.0	37.5	1.0	C44R1564-FS*****
0.012	17.5	9.5	5.0	15.0	0.6	C44R1123-6S*****	0.47	26.5	18.5	10.0	22.5	0.8	C44R1474-9S*****	0.68	41.0	22.0	11.0	37.5	1.0	C44R1684-FS*****
0.015	17.5	9.5	5.0	15.0	0.6	C44R1153-6S*****	0.56	26.5	20.0	11.0	22.5	0.8	C44R1564-9S*****	0.82	41.0	22.0	11.0	37.5	1.0	C44R1824-FS*****
0.018	17.5	9.5	5.0	15.0	0.6	C44R1183-6S*****	0.68	26.5	22.0	12.0	22.5	0.8	C44R1684-9S*****	1.0	41.0	22.0	11.0	37.5	1.0	C44R1105-FS*****
0.022	17.5	9.5	5.0	15.0	0.6	C44R1223-6S*****	0.82M	26.5	22.0	12.0	22.5	0.8	C44R1824M9S*****	1.0	42.0	15.0	24.0	37.5	1.0	C44R1105-FC*****
0.027	17.5	9.5	5.0	15.0	0.6	C44R1273-6S*****	0.82K	26.5	23.0	13.5	22.5	0.8	C44R1824K9S*****	1.2M	41.0	22.0	11.0	37.5	1.0	C44R1125MFS*****
0.033	17.5	9.5	5.0	15.0	0.6	C44R1333-6S*****	1.0	26.5	24.5	15.5	22.5	0.8	C44R1105-9S*****	1.2K	41.0	24.0	13.0	37.5	1.0	C44R1125KFS*****
0.039	17.5	9.5	5.0	15.0	0.6	C44R1393-6S*****	1.2M	26.5	24.5	15.5	22.5	0.8	C44R1125M9S*****	1.5	41.0	24.0	13.0	37.5	1.0	C44R1155-FS*****
0.047	17.5	11.0	5.0	15.0	0.6	C44R1473-6S*****	1.2	26.5	29.5	14.5	22.5	0.8	C44R1125-9A*****	1.5	41.0	26.0	12.0	37.5	1.0	C44R1155-FA*****
0.056	17.5	11.0	5.0	15.0	0.6	C44R1563-6S*****	0.15	32.0	18.0	9.0	27.5	0.8	C44R1154-BS*****	1.5	42.0	15.0	24.0	37.5	1.0	C44R1155-FC*****
0.068	17.5	12.0	6.0	15.0	0.6	C44R1683-6S*****	0.18	32.0	18.0	9.0	27.5	0.8	C44R1184-BS*****	1.8	41.0	26.0	15.0	37.5	1.0	C44R1185-FS*****
0.082	17.5	12.0	6.0	15.0	0.6	C44R1823-6S*****	0.22	32.0	18.0	9.0	27.5	0.8	C44R1224-BS*****	2.2M	41.0	26.0	15.0	37.5	1.0	C44R1225MFA*****
0.10	17.5	12.0	7.0	15.0	0.6	C44R1104-6S*****	0.27	32.0	18.0	9.0	27.5	0.8	C44R1274-BS*****	2.2M	42.0	28.0	14.0	37.5	1.0	C44R1225MFS*****
0.10	17.5	17.5	6.0	15.0	0.6	C44R1104-6A*****	0.33	32.0	18.0	9.0	27.5	0.8	C44R1334-BS*****	2.2K	41.0	30.0	16.0	37.5	1.0	C44R1225KFS*****
0.12	17.5	13.5	7.5	15.0	0.6	C44R1124-6S*****	0.39	32.0	18.0	9.0	27.5	0.8	C44R1394-BS*****	2.2	41.0	19.0	24.0	37.5	1.0	C44R1225-FC*****
0.12	17.5	17.5	6.0	15.0	0.6	C44R1124-6A*****	0.47	32.0	18.0	9.0	27.5	0.8	C44R1474-BS*****	2.7	41.0	32.0	17.0	37.5	1.0	C44R1275-FS*****
0.12M	17.5	12.5	9.0	15.0	0.6	C44R1124M6B*****	0.47	32.0	12.0	18.0	27.5	0.8	C44R1474-BC*****	3.3M	41.0	20.0	26.0	37.5	1.0	C44R1335MFC*****
0.15M	17.5	13.5	7.5	15.0	0.6	C44R1154M6S*****	0.56M	32.0	18.0	9.0	27.5	0.8	C44R1564MBS*****	3.3	41.0	33.5	18.5	37.5	1.0	C44R1335-FS*****
0.15K	17.5	14.0	8.0	15.0	0.6	C44R1154K6S*****	0.56K	32.0	20.0	11.0	27.5	0.8	C44R1564KBS*****	3.9	41.0	37.0	22.0	37.5	1.0	C44R1395-FS*****
0.15K	17.5	18.5	7.5	15.0	0.8	C44R1154K6A*****	0.68	32.0	20.0	11.0	27.5	0.8	C44R1684-BS*****	4.7M	42.0	24.0	32.0	37.5	1.0	C44R1475MFC*****
0.15	17.5	12.0	13.0	15.0	0.8	C44R1154-6C*****	0.68	32.0	12.0	22.0	27.5	0.8	C44R1684-BC*****	4.7	41.0	37.0	22.0	37.5	1.0	C44R1475-FS*****
0.18	17.5	14.5	8.5	15.0	0.6	C44R1184-6S*****	0.82	32.0	20.0	11.0	27.5	0.8	C44R1824-BS*****	5.6	41.0	41.0	26.0	37.5	1.0	C44R1565-FS*****
0.18	17.5	18.5	7.5	15.0	0.8	C44R1184-6A*****	1.0M	32.0	12.0	22.0	27.5	0.8	C44R1105MBC*****	6.8M	41.0	41.0	26.0	37.5	1.0	C44R1685MFS*****
0.22M	17.5	14.5	8.5	15.0	0.6	C44R1224M6A*****	1.0M	32.0	22.0	13.0	27.5	0.8	C44R1105MBS*****	6.8K	41.0	43.0	28.0	37.5	1.0	C44R1685KFS*****
0.22	17.5	16.0	10.0	15.0	0.8	C44R1224-6S*****	1.0K	32.0	25.0	13.0	27.5	0.8	C44R1105KBS*****	8.2	42.0	45.0	30.0	37.5	1.0	C44R1825-FS*****
0.27	17.5	19.0	11.0	15.0	0.8	C44R1274-6S*****	1.2	32.0	24.5	15.0	27.5	0.8	C44R1125-BS*****	8.2	57.0	45.0	30.0	52.5	1.2	C44R1825-MS3*****
0.33	17.5	19.0	11.0	15.0	0.8	C44R1334-6S*****	1.2	32.0	28.0	14.0	27.5	0.8	C44R1125-BA*****	10.0	57.0	45.0	30.0	52.5	1.2	C44R1106-MS3*****
0.039	26.5	15.0	6.0	22.5	0.8	C44R1393-9S*****	1.5	32.0	24.5	15.0	27.5	0.8	C44R1155-BS*****	12.0	57.0	45.0	30.0	52.5	1.2	C44R1126-MS3*****
0.047	26.5	15.0	6.0	22.5	0.8	C44R1473-9S*****	1.5	32.0	28.0	14.0	27.5	0.8	C44R1155-BA*****	15.0	57.0	50.0	35.0	52.5	1.2	C44R1156-MS3*****
0.056	26.5	15.0	6.0	22.5	0.8	C44R1563-9S*****	1.5	32.0	16.0	27.5	27.5	0.8	C44R1155-BC*****							

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

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

3. Not for use in series with the mains,the capacitors for series with the mains,please refer to A.C. Capacitors for Capacitive Divider.

Maximum permissible voltage change per unit of time

Rated Voltage (Vac)	dV/dt(V/us) at 470Vdc					
	P=10mm	P=15mm	P=22.5mm	P=27.5mm	P=37.5mm	P=52.5mm
330	600	500	400	200	150	100

- 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 .

Test Method And Performance

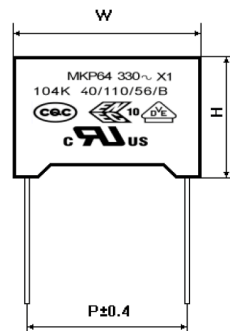
No.	Item	Performance	Test Method (GB/T14472, IEC 60384-14)
1	4.5 Solderability	Good quality of tinning	Solder temperature: $245^{\circ}\text{C} \pm 5^{\circ}\text{C}$ Immersion time: $2.0\text{s} \pm 0.5\text{s}$
2	4.3 Terminal strength	There shall be no visible damage	Tense: $0.50 < d \leq 0.80$, 10N $0.80 < d \leq 1.25$, 20N Bend: $0.50 < d \leq 0.80$, 5N $0.80 < d \leq 1.25$, 10N The terminals shall be bent 2 times in each direction
3	4.4 Resistance to solder heat	There shall be no visible damage $\Delta C/C \leq \pm 5\%$ (relative to the initial value)	Solder temperature: $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ Immersion time: $10\text{s} \pm 1\text{s}$
4	4.20 Solvent resistance of the marking	The marking shall be legible	Solvent: Industrial isopropanol. Solvent temperature: $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ Dipping time: $5\text{min} \pm 0.5\text{min}$ Condition: scrub Scrub material: absorbent cotton Reverting time: No
5	4.2 Initial measurement	Capacitance, $T_g\delta$	
	4.6 Rapid change of temperature	There shall be no evidence of deterioration.	$\theta_A = -40^{\circ}\text{C}$, $\theta_B = +110^{\circ}\text{C}$ 5 cycles Duration: $t = 30\text{min}$
	4.7 Vibration	There shall be no evidence of deterioration.	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.
	4.8 Bump	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 $\Delta C/C \leq \pm 5\%$ (relative to the initial value)	
6	4.11 Climate sequence	Initial measurement	
		Dry heat	$+110^{\circ}\text{C}$, 16h
		Damp heat, Cyclic	Test Db, Severity: b, the first cycle
		Cold	-40°C , 2h
		Damp heat, cyclic other	Test Db, Severity b, the other cycles

No.	Item	Performance	Test Method (GB/T14472, IEC 60384-14)
	Final measurement	There shall be no visible damage, legible marking $\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of $\text{tg}\delta$: $C_N \leq 1\mu\text{F}$: ≤ 0.008 (10kHz) $C_N > 1\mu\text{F}$: ≤ 0.005 (1kHz) Dielectric strength : there shall be no permanent breakdown or flashover I.R.: $\geq 50\%$ of the rated value	
7	4.12 Damp heat steady state	There shall be no visible damage, legible marking $\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of $\text{tg}\delta$: $C_N \leq 1\mu\text{F}$: ≤ 0.008 (10kHz) $C_N > 1\mu\text{F}$: ≤ 0.005 (1kHz) Dielectric strength : there shall be no permanent breakdown or flashover I.R.: $\geq 50\%$ of the rated value	Temperature: $40^\circ\text{C} \pm 2^\circ\text{C}$ Humidity: $93 \pm 2\% \text{RH}$ 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-heating 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: 4.0kV (suitable for $C_N \leq 1\mu\text{F}$; When $C_N > 1\mu\text{F}$, the capacitor can endure pulse voltage value is $4.0/\sqrt{C_N}$ kV)
9	4.14 Endurance	There shall be no visible damage, legible marking $\Delta C/C \leq \pm 10\%$ (relative to the initial value) Increase of $\text{tg}\delta$: $C_N \leq 1\mu\text{F}$: ≤ 0.008 (10kHz) $C_N > 1\mu\text{F}$: ≤ 0.005 (1kHz) Dielectric strength : There shall be no breakdown or flashover I.R. : $\geq 50\%$ of the rated value	$+110^\circ\text{C}$, $1.25U_R \text{V a.c.}$, 1 000h The voltage shall be subjected to 1000Vrms for 0.1s every one hour during test.
10	4.15 Charging and discharging	$\Delta C/C \leq \pm 10\%$ (relative to the initial value) Increase of $\text{tg}\delta$: $C_N \leq 1\mu\text{F}$: ≤ 0.008 (10kHz) $C_N > 1\mu\text{F}$: ≤ 0.005 (1kHz) I.R.: $\geq 50\%$ of the rated value	Times: 10 000 Duration of charging: 0.5s Duration of discharging: 0.5s Charging voltage: $\sqrt{2} U_R \text{V d.c.}$ Charging resistance: $220/C_N(\Omega)$ or the current $\leq 1.0\text{A}$ (whichever is the minor) Discharging resistance: $R = \frac{\sqrt{2}U_R}{C_N \times \frac{dU}{dt}} (\Omega)$ C_N : Capacitance (μF)

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 (GB/T14472, 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 cloth. Each sample shall be subjected to 20 discharges, the interval between successive discharges shall be 5s. $U_i = 4.0kV_0^{+7} \%$ U_R be applied and be maintained for 120_0^{+10} s after the last discharge.

Quality ensuring test (before shipment):

Inspection item (each batch)	Inspection level (GB/T 2828.1, ISO2859-1)	
	IL	AQL
Appearance inspection	II	1.5%
Dimensions		
Capacitance	II	0.25%
Tangent of the loss angle		
Dielectric strength		
Insulation resistance		
Solderability	S-3	2.5%

Marking


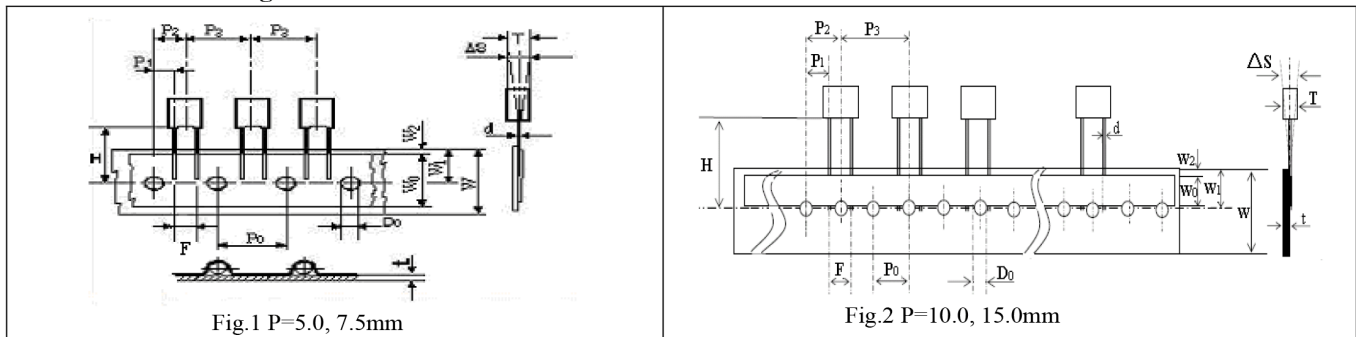
Marking Introduction:

Sign	explain	Sign	explain
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	Brand	40/110/56/B	Climate category / Passive Flammability Class
MKP64	Type		CQC Approval
330~	Rated voltage		ENEC-VDE Approval
X1	Class		UL&CUL Approval
104K	Rated capacitance and tolerance		

■ Taping specification for box-type capacitors

▲ Outline Drawing



▲ Taping Dimensions(mm)

Technology index title	Code	Dimensions				Tolerance
		P=5.0	P=7.5	P=10.0	P=15.0	
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 tapping wire	F**	5.0	7.5	10.0	15.0	+0.6 -0.1
Component alignment	ΔS	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 position	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

▲ Packing Quantity

Pitch (mm)	Box thickness T(mm)	Ammo-pack (pcs/box)	
		Domestic	Export
5.0	2.5	2500	2 000
	3.5	1 700	1 500
	4.5	1 400	1 300
	5.0	1 200	1 000
7.5	6.0	1 000	800
	3.5	1 700	1 500
	4.0	1 500	1 350
10.0/ 15.0	5.0	1 200	1 050
	6.0	1 000	850
	4.0	750	650
15.0	5.0	600	500
	6.0	500	450
	7.5	400	350
	8.5	350	300
	10.0	300	250
	11.0	250	220

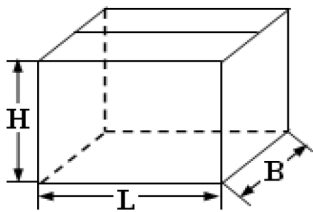
Note: * P₀=15mm is also available;

**F can be other lead spacing;

***H=16.5mm is available;

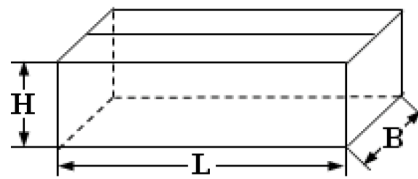
■ Packing box sizes(mm)

1. Out packing box for bulk



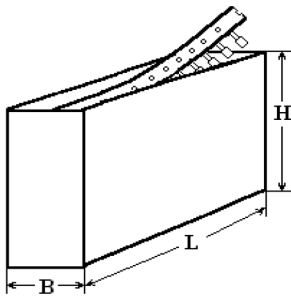
L:375±5
 B:375±5
 H:265±5

2. Inner packing box for bulk



L:355±3
 B:175±3
 H:118±3

3. Box sizes for Ammo-pack



L:330±3
 B:48±3
 H:260±3