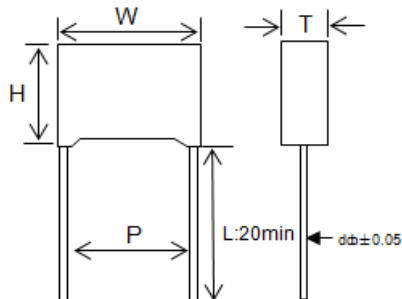


金属化聚丙烯膜抗干扰电容器 (X2 类, THB 防潮系列)  
Metallized polypropylene film interference suppression capacitor  
(class X2, THB series)

■ 外形图 Outline Drawing



■ 特点

- 金属聚丙烯膜
- 能承受过压冲击
- 优异的阻燃性能
- 广泛用于电源跨线电路等抗干扰场合
- 在严苛的环境下 (如高温高湿) 长期应用  
容量稳定性优异

■ Features

- Metallized polypropylene structure
- Withstanding overvoltage stressing
- S Excellent active and passive flame resistant abilities
- Widely used in across-the-line, interference suppression circuit, etc.
- High stability of capacitance under severe ambient condition, such as high temperature and high humidity

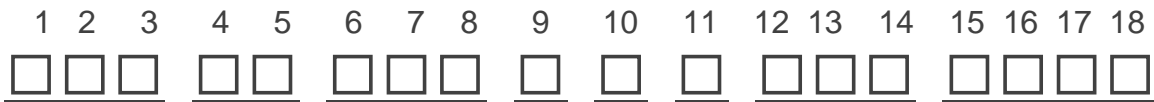
技术要求 Specifications

电容器类别 class	X2 类		
气候类别/阻燃等级 Climatic Category/Passive Flammability Category	40/110/56/B		
工作温度范围 Operating temperature	-40°C~110°C		
额定电压 Rated Voltage	310VAC,50/60Hz 适用于电源电压不超过 250Vac, 50/60Hz 的场合 Mains voltage can't be higher than 250Vac,50/60Hz		
最大连续直流电压 Maximum continuous DC voltage	630Vdc		
电容量范围 Capacitance Range	0.0010 ~ 10.0 $\mu$ F		
电容量偏差 Capacitance Tolerance	$\pm 10\%$ (K), $\pm 20\%$ (M)		
耐电压 Voltage Proof	引线之间 Between Terminals:	4.3U <sub>R</sub> (DC) (5S)	
	极壳之间 Between Terminals To Case:	2 120Vac (1min)	
损耗角正切 Dissipation Factor	0.0010 $\mu$ F $\leq$ C <sub>R</sub> $\leq$ 0.47 $\mu$ F	0.47 $\mu$ F < C <sub>R</sub> $\leq$ 1.0 $\mu$ F	1.0 $\mu$ F < C <sub>R</sub> $\leq$ 10 $\mu$ F
	$\leq 15 \times 10^{-4}$ (1kHz,20°C)	$\leq 20 \times 10^{-4}$ (1kHz,20°C)	$\leq 30 \times 10^{-4}$ (1kHz,20°C)
	$\leq 20 \times 10^{-4}$ (10kHz,20°C)	$\leq 40 \times 10^{-4}$ (10kHz,20°C)	-----
绝缘电阻 Insulation Resistance	$\geq 15\,000\text{M}\Omega$ , C <sub>R</sub> $\leq 0.33\mu\text{F}$ $\geq 5\,000\text{s}$ , C <sub>R</sub> > 0.33 $\mu\text{F}$ (20°C,100V,1min)		
防潮测试 THB test(Damp heat test with loading)	Temperature: 85°C $\pm 2^\circ\text{C}$ ; Humidity: 85 +2/-3 % Voltage setting: 240VAC 50Hz; Time Duration: 1000H Capacitance change: $\Delta C/C \leq \pm 10\%$ DF Change: C <sub>R</sub> $\leq 1.0\mu\text{F}$ $\Delta \tan \delta \leq 0.8\%$ at 1 KHZ C <sub>R</sub> > 1.0 $\mu\text{F}$ $\Delta \tan \delta \leq 0.5\%$ at 1 KHZ		

## 产品代码说明 Part number system

### ■ 18 位产品代码说明如下:

The 18 digits part number is formed as follow:



### W 4 2

第 1~3 位: 型号代码

W42=MKP

第 4~5 位: 交流额定电压

Q3=310V

第 6~8 位: 标称容量

举例 : 104 =  $10 \times 10^4$  PF = 0.1 $\mu$ f

第 9 位: 容量偏差

K=±10%, M=±20%

第 10 位: 引线脚距

J=7.5mm K=10mm M=15mm

P=22mm S=27mm X=37mm

第 11 位: 引线线径

5= CP 0.5mm 6= CP 0.6mm

7= CP 0.7mm 8= CP 0.8mm

C=CP 1.0mm

第 12 位: 引线加工和包装代码

L= 直脚 K= 引线成型

T= 弹带包装

第 13~18 位: 内部特征码

Digit 1 to 3: Series code

W42=MKP

Digit 4 to 5: AC rated voltage

Q3=310V

Digit 6 to 8: Rated capacitance

For example: 104 =  $10 \times 10^4$  PF = 0.1 $\mu$ f

Digit 9: Capacitance tolerance

K=±10%, M=±20%

Digit 10: Pitch

J=7.5mm K=10mm M=15mm

P=22mm S=27mm X=37mm

Digit 11: Lead Wire diameter

5= CP 0.5mm 6= CP 0.6mm

7= CP 0.7mm 8= CP 0.8mm

C=CP 1.0mm

Digit 12: Lead form and packaging code

L= straight lead K= Lead kinked

T= ammo-pack

Digit 13 to 18: Internal use

## ■ 外形尺寸 Dimensions (mm)

310Vac						
Cn (μF)	W max	H max	T max	P	d	Part number
0.0010	10.5	9.0	4.0	7.5	0.6	W42Q3102-J6*****
0.0012	10.5	9.0	4.0	7.5	0.6	W42Q3122-J6*****
0.0015	10.5	9.0	4.0	7.5	0.6	W42Q3152-J6*****
0.0018	10.5	9.0	4.0	7.5	0.6	W42Q3182-J6*****
0.0022	10.5	9.0	4.0	7.5	0.6	W42Q3222-J6*****
0.0027	10.5	9.0	4.0	7.5	0.6	W42Q3272-J6*****
0.0033	10.5	9.0	4.0	7.5	0.6	W42Q3332-J6*****
0.0039	10.5	9.0	4.0	7.5	0.6	W42Q3392-J6*****
0.0047	10.5	9.0	4.0	7.5	0.6	W42Q3472-J6*****
0.0056	10.5	9.0	4.0	7.5	0.6	W42Q3562-J6*****
0.0068	10.5	9.0	4.0	7.5	0.6	W42Q3682-J6*****
0.0082	10.5	9.0	4.0	7.5	0.6	W42Q3822-J6*****
0.01	10.5	9.0	4.0	7.5	0.6	W42Q3103-J6*****
0.012	10.5	9.0	4.0	7.5	0.6	W42Q3123-J6*****
0.015	10.5	9.0	4.0	7.5	0.6	W42Q3153-J6*****
0.018	10.5	9.0	4.0	7.5	0.6	W42Q3183-J6*****
0.022	10.5	9.0	4.0	7.5	0.6	W42Q3223-J6*****
0.027	10.5	11.0	5.0	7.5	0.6	W42Q3273-J6*****
0.033	10.5	11.0	5.0	7.5	0.6	W42Q3333-J6*****
0.039	10.5	12.0	6.0	7.5	0.6	W42Q3393-J6*****
0.047	10.5	12.0	6.0	7.5	0.6	W42Q3473-J6*****
0.068	10.5	13.0	7.0	7.5	0.6	W42Q3683-J6*****
0.1	10.5	14.0	8.0	7.5	0.6	W42Q3104-J6*****
0.0047	13.0	9.0	4.0	10.0	0.6	W42Q3472-K6*****
0.0056	13.0	9.0	4.0	10.0	0.6	W42Q3562-K6*****
0.0068	13.0	9.0	4.0	10.0	0.6	W42Q3682-K6*****
0.0082	13.0	9.0	4.0	10.0	0.6	W42Q3822-K6*****
0.01	13.0	9.0	4.0	10.0	0.6	W42Q3103-K6*****
0.01	13.0	11.0	5.0	10.0	0.6	W42Q3103-K6*****
0.012	13.0	11.0	5.0	10.0	0.6	W42Q3123-K6*****
0.015	13.0	9.0	4.0	10.0	0.6	W42Q3153-K6*****
0.018	13.0	11.0	5.0	10.0	0.6	W42Q3183-K6*****
0.022	13.0	9.0	4.0	10.0	0.6	W42Q3223-K6*****
0.022	13.0	11.0	5.0	10.0	0.6	W42Q3223-K6*****
0.027	13.0	11.0	5.0	10.0	0.6	W42Q3273-K6*****
0.033	13.0	9.0	4.0	10.0	0.6	W42Q3333-K6*****
0.033	13.0	11.0	5.0	10.0	0.6	W42Q3333-K6*****
0.039	13.0	11.0	5.0	10.0	0.6	W42Q3393-K6*****
0.047	13.0	11.0	5.0	10.0	0.6	W42Q3473-K6*****
0.056	13.0	11.0	5.0	10.0	0.6	W42Q3563-K6*****
0.068	13.0	12.0	6.0	10.0	0.6	W42Q3683-K6*****
0.082	13.0	12.0	6.0	10.0	0.6	W42Q3823-K6*****
0.1	13.0	12.0	6.0	10.0	0.6	W42Q3104-K6*****
0.12	13.0	13.0	7.0	10.0	0.6	W42Q3124-K6*****
0.15	13.0	14.0	8.0	10.0	0.6	W42Q3154-K6*****
0.18	13.0	16.0	9.0	10.0	0.6	W42Q3184-K6*****
0.22	13.0	16.0	9.0	10.0	0.6	W42Q3224-K6*****
0.33	13.0	20.0	10.0	10.0	0.6	W42Q3334-K6*****
0.47	13.0	22.0	12.0	10.0	0.6	W42Q3474-K6*****

310Vac						
Cn (μF)	W max	H max	T max	P	d	Part number
0.01	18.0	11.0	5.0	15.0	0.6	W42Q3103-M6*****
0.012	18.0	11.0	5.0	15.0	0.6	W42Q3123-M6*****
0.015	18.0	11.0	5.0	15.0	0.6	W42Q3153-M6*****
0.018	18.0	11.0	5.0	15.0	0.6	W42Q3183-M6*****
0.022	18.0	11.0	5.0	15.0	0.6	W42Q3223-M6*****
0.027	18.0	11.0	5.0	15.0	0.6	W42Q3273-M6*****
0.033	18.0	11.0	5.0	15.0	0.6	W42Q3333-M6*****
0.039	18.0	11.0	5.0	15.0	0.6	W42Q3393-M6*****
0.047	18.0	11.0	5.0	15.0	0.6	W42Q3473-M6*****
0.056	18.0	11.0	5.0	15.0	0.6	W42Q3563-M6*****
0.068	18.0	11.0	5.0	15.0	0.6	W42Q3683-M6*****
0.082	18.0	11.0	5.0	15.0	0.6	W42Q3823-M6*****
0.1	18.0	11.0	5.0	15.0	0.6	W42Q3104-M6*****
0.12	18.0	12.0	6.0	15.0	0.6	W42Q3104-M6*****
0.15	18.0	12.0	6.0	15.0	0.6	W42Q3154-M6*****
0.15	18.0	14.5	8.5	15.0	0.8	W42Q3154-M8*****
0.18	18.0	12.0	6.0	15.0	0.6	W42Q3184-M6*****
0.18	18.0	14.5	8.5	15.0	0.8	W42Q3184-M8*****
0.22	18.0	13.0	7.0	15.0	0.8	W42Q3224-M8*****
0.22	18.0	14.5	8.5	15.0	0.8	W42Q3224-M8*****
0.27	18.0	13.5	7.5	15.0	0.8	W42Q3274-M8*****
0.33	18.0	14.5	8.5	15.0	0.8	W42Q3334-M8*****
0.33	18.0	15.5	9.5	15.0	0.8	W42Q3334-M8*****
0.39	18.0	17.0	8.0	15.0	0.8	W42Q3394-M8*****
0.47	18.0	16.0	10.0	15.0	0.8	W42Q3474-M8*****
0.47	18.0	17.5	9.0	15.0	0.8	W42Q3474-M8*****
0.47	18.0	18.5	11.0	15.0	0.8	W42Q3474-M8*****
0.56	18.0	19.0	10.0	15.0	0.8	W42Q3564-M8*****
0.56	18.0	19.0	11.0	15.0	0.8	W42Q3564-M8*****
0.68	18.0	19.0	11.0	15.0	0.8	W42Q3684-M8*****
0.82	18.0	26.0	16.0	15.0	0.8	W42Q3824-M8*****
0.1	26.5	15.0	6.0	22.0	0.8	W42Q3104-P8*****
0.15	26.5	15.0	6.0	22.0	0.8	W42Q3154-P8*****
0.18	26.5	15.0	6.0	22.0	0.8	W42Q3184-P8*****
0.22	26.5	15.0	6.0	22.0	0.8	W42Q3224-P8*****
0.22	26.5	16.5	7.0	22.0	0.8	W42Q3224-P8*****
0.27	26.5	15.0	6.0	22.0	0.8	W42Q3274-P8*****
0.33	26.5	15.0	6.0	22.0	0.8	W42Q3334-P8*****
0.33	26.5	16.0	7.0	22.0	0.8	W42Q3334-P8*****
0.33	26.5	17.0	8.5	22.0	0.8	W42Q3334-P8*****
0.39	26.5	15.0	6.0	22.0	0.8	W42Q3394-P8*****
0.47	26.5	16.0	7.0	22.0	0.8	W42Q3474-P8*****
0.47	26.5	19.0	10.0	22.0	0.8	W42Q3474-P8*****
0.56	26.5	16.0	7.0	22.0	0.8	W42Q3564-P8*****
0.56	26.5	19.0	10.0	22.0	0.8	W42Q3564-P8*****
0.68	26.5	17.0	8.5	22.0	0.8	W42Q3684-P8*****
0.68	26.5	17.0	10.0	22.0	0.8	W42Q3684-P8*****
0.68	26.5	19.0	10.0	22.0	0.8	W42Q3684-P8*****
0.82	26.5	19.0	10.0	22.0	0.8	W42Q3824-P8*****
1.0	26.5	19.0	10.0	22.0	0.8	W42Q3105-P8*****
1.0	26.5	20.0	11.0	22.0	0.8	W42Q3105-P8*****
1.0	26.0	21.5	12.0	22.0	0.8	W42Q3105-P8*****
1.2	26.5	20.0	11.0	22.0	0.8	W42Q3125-P8*****
1.5	26.5	22.0	12.0	22.0	0.8	W42Q3155-P8*****
1.8	26.5	24.5	15.5	22.0	0.8	W42Q3185-P8*****
2.2	26.5	24.5	15.5	22.0	0.8	W42Q3225-P8*****
2.2	26.5	25.0	16.5	22.0	0.8	W42Q3225-P8*****
2.2	26.5	29.5	14.5	22.0	0.8	W42Q3225-P8*****

备注: 1. “-”表示容量偏差。“-”=capacitance tolerance code, M=±20%,K=±10%,

2. 第 12 位表示引线加工和包装代码, L= 直脚 straight lead K= 引线成型 Lead kinked T= 弹带包装 ammo-pack

## ■ 外形尺寸 Dimensions (mm)

310Vac						
Cn ( $\mu$ F)	W max	H max	T max	P	d	Part number
0.47	32.0	18.0	9.0	27.0	0.8	W42Q3474-S8*****
0.47	31.5	19.5	9.0	27.0	0.8	W42Q3474-S8*****
0.56	32.0	18.0	9.0	27.0	0.8	W42Q3564-S8*****
0.68	32.0	18.0	9.0	27.0	0.8	W42Q3684-S8*****
0.68	31.5	19.5	11.0	27.0	0.8	W42Q3684-S8*****
0.82	32.0	18.0	9.0	27.0	0.8	W42Q3824-S8*****
0.82	31.5	19.5	9.0	27.0	0.8	W42Q3824-S8*****
1.0	32.0	18.0	9.0	27.0	0.8	W42Q3105-S8*****
1.0	31.5	19.5	11.0	27.0	0.8	W42Q3105-S8*****
1.2	32.0	20.0	11.0	27.0	0.8	W42Q3125-S8*****
1.5	32.0	20.0	11.0	27.0	0.8	W42Q3155-S8*****
1.8	32.0	22.0	13.0	27.0	0.8	W42Q3185-S8*****
2.2	32.0	25.0	13.0	27.0	0.8	W42Q3225-S8*****
2.2	32.0	25.0	15.0	27.0	0.8	W42Q3225-S8*****
2.7	32.0	28.0	14.0	27.0	0.8	W42Q3275-S8*****
3.3	32.0	28.0	17.0	27.0	0.8	W42Q3335-S8*****
3.3	31.5	32.0	16.0	27.0	0.8	W42Q3335-S8*****
3.3	32.0	33.0	18.0	27.0	0.8	W42Q3335-S8*****
3.9	32.0	33.0	18.0	27.0	0.8	W42Q3395-S8*****
4.7	32.0	33.0	18.0	27.0	0.8	W42Q3475-S8*****
4.7	31.5	31.0	21.0	27.0	0.8	W42Q3475-S8*****
5.6	32.0	37.0	22.0	27.0	0.8	W42Q3565-S8*****
1.5	41.0	22.0	11.0	37.0	1.0	W42Q3155-XC*****
1.8	41.0	22.0	11.0	37.0	1.0	W42Q3185-XC*****
2.2	41.0	24.0	13.0	37.0	1.0	W42Q3225-XC*****
2.2	41.0	25.0	14.0	37.0	1.0	W42Q3225-XC*****
2.7	41.0	24.0	13.0	37.0	1.0	W42Q3275-XC*****
3.3	41.0	26.0	15.0	37.0	1.0	W42Q3335-XC*****
3.3	41.5	28.5	16.0	37.0	1.0	W42Q3335-XC*****
3.3	41.0	30.0	15.0	37.0	1.0	W42Q3335-XC*****
3.9	41.0	30.0	16.0	37.0	1.0	W42Q3395-XC*****
4.7	41.0	30.0	16.0	37.0	1.0	W42Q3475-XC*****
4.7	41.0	32.0	19.0	37.0	1.0	W42Q3475-XC*****
4.7	41.5	32.5	18.0	37.0	1.0	W42Q3475-XC*****
5.6	41.0	33.5	18.5	37.0	1.0	W42Q3565-XC*****
6.8	41.0	33.5	19.5	37.0	1.0	W42Q3685-XC*****
6.8	41.5	39.5	20.0	37.0	1.0	W42Q3685-XC*****
8.2	41.0	37.0	22.0	37.0	1.0	W42Q3825-XC*****
10.0	41.0	41.0	26.0	37.0	1.0	W42Q3106-XC*****
10.0	41.5	42.5	28.0	37.0	1.0	W42Q3106-XC*****
10.0	41.0	45.0	30.0	37.0	1.0	W42Q3106-XC*****

备注: 1. "-" 表示容量偏差。"- " = capacitance tolerance code, M=±20%,K=±10%,

2. 第 12 位表示引线加工和包装代码, L= 直脚 straight lead K= 引线成型 Lead kinked T= 弹带包装 ammo-pack