

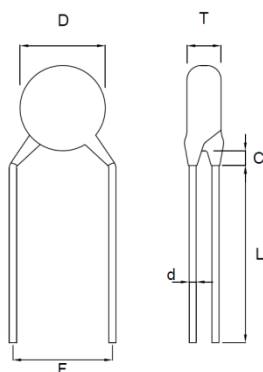
## 抑制电源电磁干扰用固定用电容器 / 交流安规陶瓷电容器

Fixed capacitors for the suppression of electromagnetic interference from power sources/ AC safety ceramic capacitor

安规类别 : X1Y1

Safety class: X1Y1

### ■ 外形图 Outline Drawing



### ■ 特点

- 工作温度范围上限达125 (UL: 85°C)
- 介电强度 : AC 4000V
- 经 VDE/ENEC/UL/CQC/KC 认证的 X1/Y2 等级电容器
- 涂有阻燃环氧树脂层 (符合 UL94 V-0 规格)
- 自动插入型, 成本效益显著
- 可提供用于 RoHS/SVHC/Halogen Free 限制的产品

### Features

- Operating temperature Range Guaranteed up to 125degrees(UL:85°C )
- Dielectric strength: AC 4000V
- X1/Y2 class capacitors certified by VDE/ENEC/UL/CQC/KC
- Flame retardant epoxy coating (in accordance with UL94 V-0 specification)
- Automatic insertion is cost-effective
- Products available for RoHS/SVHC/Halogen Free restrictions

### ■ 主要用途 ■ Typical application

- 最为理想的用途是用作交流线路滤波器以及开关电源和交流 转接器初级-次级耦合的X/Y 等级电容器。
- 也可使用在没有变压器的DAA模块的D-A隔离和吸收杂音上。
- 旁路
- Ideal for use as X/Y cap acitors for AC line filter and primary-secondary coupling on switching Power supplies and AC adapters.
- Ideal for use on D-A isolation and noise absorption For DAA modems without transformers.
- By Pass

## •技术要求 Specifications

安规类别 Safety class	X1、Y1
引用标准 Reference Standard	GB/T 6346-14:2015 (IEC 60384-14)
气候类别 Climatic Category	21/125/21
阻燃等级 Passive Flammability Category	C
额定温度 Rated temperature	-25~+85°C
工作温度范围 Operating temperature	-40°C~125°C
温度特性 Temperature Characteristic	Y5P ( $\Delta C/C: \leq 10\%$ @ -25°C ~ +85°C ) Y5U ( $\Delta C/C: \leq +22\%/-56\%$ @ -25°C ~ +85°C ) Y5V ( $\Delta C/C: \leq +22\%/-82\%$ @ -25°C ~ +85°C )
额定电压 Rated Voltage	X1:500V Y1: AC 250V/300V/400V/500V
电容量范围 Capacitance Range	10PF ~ 4700PF
电容量偏差 Capacitance Tolerance	$\pm 10\%$ (K), $\pm 20\%$ (M)
耐电压 Voltage Proof	4000VAC (60s)
损耗角正切 Dissipation Factor	$\leq 0.025$ (20°C, 1kHz)
绝缘电阻 Insulation Resistance	$\geq 10\ 000M\Omega$ , (20°C, 100V, 1min)
标志 Marking	<p>WEIDY WYD 222M X1:500V~ Y1:500V~ XXXXXX</p>

## ■ 规格认证

认证标志 Approval Mark	认证标准 Approval Standards	额定电压 Rated Voltage	认证证书号 Certificate Number
	UL 60384-14/CSA60384-14	X1:AC500V Y1:AC250/300/400/500V	E334332
 	DIN EN 60384-14 (VDE0565-1-1):2014-04; EN 60384-14:2013-08 DIN EN 60384-14/A1 (VDE 0565-1-1/A1):2017-04; EN 60384-14:2013/A1:2016 IEC 60384-14:2013 IEC 60384-14:2013/AMD1:2016		40051104
	GB/T6346.14-2015		CQC20001237500

## 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:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
<b>W</b>	<b>Y</b>	<b>D</b>	<b>2</b>	<b>H</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>M</b>	<b>F</b>	<b>4</b>	<b>S</b>	<b>6</b>	<b>3</b>	<b>E</b>	<b>0</b>	<b>0</b>	<b>0</b>

第 1~3 位：型号代码

WYD

第 4~5 位：交流额定电压

2E=250V 2F=300V

2G=400V 2H=500V

第 6~8 位：标称容量

举例：102 =  $10 \times 10^2$  PF = 100PF

第 9 位：容量偏差

K=±10%, M=±20%

第 10 ~ 11 位：温度特性

Y5P=B4 Y5U=E4 Y5V=F4

第 12 位：脚型

S=直脚 K=外弯脚

I=内弯脚 V=平行脚

第 13 位：脚距

5= 7.5mm 6= 10.0mm

第 14 ~ 15 位：脚长或编带规格

3E =3.5mm 05=5.0mm

10=10.0mm 20=20mm

T1=12.7mm 编带

T2=15.0mm 编带

第 16~18 位：内部特征码

Digit 1 to 3: Series code

WYD

Digit 4 to 5: AC rated voltage

2E=250V 2F=300V

2G=400V 2H=500V

Digit 6 to 8 : Rated capacitance

For example: 102= $10 \times 10^2$  PF = 1000PF

Digit 9: Capacitance tolerance

K=±10%, M=±20%

Digit 10 ~ 11: Temperature Characteristic

Y5P=B4 Y5U=E4 Y5V=F4

Digit 12: Lead Style

S= Straight Lead K= Outsied Kink Lead

I= Inside Kink Lead V= Vertical Kink Lead

Digit 13: Lead Spacing

5= 7.5mm 6= 10.0mm

Digit 14 ~ 15: Lead length or taping specifications

3E =3.5mm 05=5.0mm

10=10.0mm 20=20mm

T1=Pitch 12.7mm taping

T2=Pitch 15.0mm taping

Digit 16 to 18: Internal use

## ■ 外形尺寸 Dimensions (mm)

### Y5P 系列

品名 Part number	交流额定电压 ( VAC )	温度特性 T.C.	静电容量 ( PF )	公差 %	元件直径 D ( MAX )	元件厚度 T ( MAX )	包封脚 C ( MAX )	脚距 F(±1)	引线直径 Φd(±0.1)
WYD2H100KB4*63E000	250/300/400/500	Y5P	10	± 10	6.0	3.5	2.0	10	0.6
WYD2H150KB4*63E000	250/300/400/500	Y5P	15	± 10	6.0	3.5	2.0	10	0.6
WYD2H220KB4*63E000	250/300/400/500	Y5P	22	± 10	7.0	3.5	2.0	10	0.6
WYD2H330KB4*63E000	250/300/400/500	Y5P	33	± 10	6.0	3.5	2.0	10	0.6
WYD2H470KB4*63E000	250/300/400/500	Y5P	47	± 10	7.0	3.5	2.0	10	0.6
WYD2H560KB4*63E000	250/300/400/500	Y5P	56	± 10	7.0	3.5	2.0	10	0.6
WYD2H680KB4*63E000	250/300/400/500	Y5P	68	± 10	8.2	3.5	2.0	10	0.6
WYD2H820KB4*63E000	250/300/400/500	Y5P	82	± 10	9.5	3.5	2.0	10	0.6
WYD2H101KB4*63E000	250/300/400/500	Y5P	100	± 10	6.5	4.5	2.0	10	0.6
WYD2H151KB4*63E000	250/300/400/500	Y5P	150	± 10	6.5	4.5	2.0	10	0.6
WYD2H221KB4*63E000	250/300/400/500	Y5P	220	± 10	6.5	4.5	2.0	10	0.6
WYD2H331KB4*63E000	250/300/400/500	Y5P	330	± 10	7.5	4.5	2.0	10	0.6
WYD2H471KB4*63E000	250/300/400/500	Y5P	470	± 10	7.5	4.5	2.0	10	0.6
WYD2H561KB4*63E000	250/300/400/500	Y5P	560	± 10	9.0	4.5	2.0	10	0.6
WYD2H681KB4*63E000	250/300/400/500	Y5P	680	± 10	9.0	4.5	2.0	10	0.6
WYD2H821KB4*63E000	250/300/400/500	Y5P	820	± 10	10.0	4.5	2.0	10	0.6
WYD2H102KB4*63E000	250/300/400/500	Y5P	1000	± 10	10.5	4.5	2.0	10	0.6

备注：\*表示不同脚型，000 为内部代码。

### Y5U 系列

品名 Part number	交流额定电压 ( VAC )	温度特性 T.C.	静电容量 ( PF )	公差 %	元件直径 D ( MAX )	元件厚度 T ( MAX )	包封脚 C ( MAX )	脚距 F(±1)	引线直径 Φd(±0.1)
WYD2H471ME4*63E000	250/300/400/500	Y5U	470	± 20	6.5	4.5	2.0	10	0.6
WYD2H561ME4*63E000	250/300/400/500	Y5U	560	± 20	6.5	4.5	2.0	10	0.6
WYD2H681ME4*63E000	250/300/400/500	Y5U	680	± 20	7.5	4.5	2.0	10	0.6
WYD2H821ME4*63E000	250/300/400/500	Y5U	820	± 20	7.5	4.5	2.0	10	0.6
WYD2H102ME4*63E000	250/300/400/500	Y5U	1000	± 20	7.5	4.5	2.0	10	0.6
WYD2H152ME4*63E000	250/300/400/500	Y5U	1500	± 20	8.5	4.5	2.0	10	0.6
WYD2H222ME4*63E000	250/300/400/500	Y5U	2200	± 20	10.0	4.5	2.0	10	0.6
WYD2H332ME4*63E000	250/300/400/500	Y5U	3300	± 20	12.5	4.5	2.0	10	0.6
WYD2H392ME4*63E000	250/300/400/500	Y5U	3900	± 20	13.5	4.5	2.0	10	0.6
WYD2H472ME4*63E000	250/300/400/500	Y5U	4700	± 20	14.5	4.5	2.0	10	0.6

备注：\*表示不同脚型，000 为内部代码。

### Y5V 系列

品名 Part number	交流额定电压 ( VAC )	温度特性 T.C.	静电容量 ( PF )	公差 %	元件直径 D ( MAX )	元件厚度 T ( MAX )	包封脚 C ( MAX )	脚距 F(±1)	引线直径 Φd(±0.1)
WYD2H102MF4*63E000	250/300/400/500	Y5V	1000	± 20	6.5	4.5	2.0	10	0.6
WYD2H152MF4*63E000	250/300/400/500	Y5V	1500	± 20	7.5	4.5	2.0	10	0.6
WYD2H222MF4*63E000	250/300/400/500	Y5V	2200	± 20	8.2	4.5	2.0	10	0.6
WYD2H332MF4*63E000	250/300/400/500	Y5V	3300	± 20	9.5	4.5	2.0	10	0.6
WYD2H392MF4*63E000	250/300/400/500	Y5V	3900	± 20	11.0	3.5	2.0	10	0.6
WYD2H472MF4*63E000	250/300/400/500	Y5V	4700	± 20	11.0	3.5	2.0	10	0.6

备注：\*表示不同脚型，000 为内部代码。

■ 脚型示意图

脚型代码	S	K	I	V
描述	直脚 Straight Lead	外弯脚 Outsude Kink Lead	内弯脚 Inside Kink Lead	平行脚 Vertical Kink Lead
示意图	