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东莞市瓷谷电子科技有限公司
DONGGUAN CIGU ELECTRONIC TECHNOLOGY CO., LTD



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瓷谷科技
CAIKOTECHNOLOGY

大學之道在明明德在親民在止于至善知止而后有定定而后能靜靜而后能安安而后能慮慮而后能得物有本末事有終始知所先后則近道矣

古之欲明明德于天下者先治其國欲治其國者先齊其家欲齊其家者先修其身欲修其身者先正其心欲正其心者先誠其意欲誠其意者先致其知致知在格物物格而后知至知至而后意誠意誠而后心正心正而后身修身修而后家齊家齊而后國治國治而后天下平

摘【大學·禮記】篇

contents

目录

02	企业简介	PROFILE CORPORATE
04	企业文化	CULTURE CORPORATE
05	企业认证	ENTERPRISE CORPORATE
07	安规瓷介电容器	SAFETY REGULATIONS VOLTAGE CERAMIC CAPACITORS
09	陶瓷电容器I类(温度补偿型)	CAPACITOR(T-C)
11	陶瓷电容器II类(高介电常数型)	CAPACITOR(HI-K)
13	金属化聚丙烯膜抗干扰电容器	METALLIZED POLYPROPYLENE FILM EMI CAPACITOR CLASS-X2
15	金属化聚酯膜电容器	METALLIZED POLYESTER FILM CAPACITOR CI21
17	金属化聚丙烯膜电容器	METALLIZED POLYPROPYLENE FILM CAPACITOR CBB21
19	氧化锌压敏电阻器	ZINC OXIDE VARISTOR

PROFILE

CORPORATE

企业简介

东莞市瓷谷电子科技有限公司(CGE)位于中国广东省东莞市。公司于2013年成立，注册资金100万元人民币。是中国专业研发生产陶瓷电容器、薄膜电容器和压敏电阻器的大型民营企业之一。

公司主要研发生产销售中高压陶瓷电容器(CC81/CT81)、安规交流陶瓷电容器(Y1/Y2)、金属膜安规交流电容器(X2)、金属膜电容器(CBB21/CL21)、氧化锌压敏电阻器(ZOV)。公司现有研发生产设备100台套，年生产能力4亿只。

Dongguan CIGU Valley Electronic Technology Co., Ltd. (CGE) is located in Dongguan City, Guangdong Province, china.Company was founded in 2013, the registered capital of 1 million yuan. Is a Chinese professional R & D and production of ceramic capacitors, film capacitors and pressure sensitive resistors, one of the large private enterprises.

Gauge AC capacitors (X2), metal film capacitors CBB21/CL21, oxidation of zinc varistors ZOV company main R & D production and sales of high voltage ceramic capacitor CC81/CT81, an AC Ceramic Capacitors (Y1 / Y2), a metal film ANN,. The company's existing R & D and production of 100 sets of equipment, the annual production capacity of 400 million.

CIGU`S

PRODUCT

SALES

INTRODUCTION



公司本着尊重知识和人才、着眼于全球市场、依靠过硬的品质和服务致力于发展民族自主产业。为广大用户提供超值期望的服务理念，大力推广电源类、电机类、光伏驱动类、小家电类和电视机显示器类等电子整机领域的应用。协助终端做好四样事情：“合理选型、合理应用、合理节约、齐全配套”。

Companies in the spirit of respect for knowledge and talent, focusing on the global market, relying on excellent quality and service to develop national independent industry. For the majority of users to provide value-added service concept, and vigorously promote the power class, motor class, photovoltaic drive type, small household electrical appliances and TV displays, such as the field of electronic applications. assist Terminal to do four things: reasonable selection, reasonable application, reasonable economy, complete set of matching".

CULTURE

CORPORATE

企业文化

愿景

致力于打造成为行业领先级优秀企业。

使命

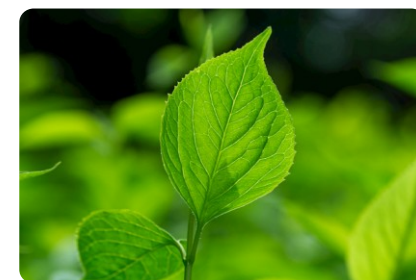
瓷谷人共同奋斗，以陶瓷电子元件产业为依托，做精做强，为客户提供满意的成品和服务，为员工谋福利，为社会做贡献！

精神

重目标，重贡献，重成果；不惧困难，乐观进取，追求卓越。

价值观

以人为本，相互尊重、团队协作、精益管理、客户至上，拼搏创新，诚信经营，合作共赢。



Our Vision

Committed and devoted to become an excellent industry-leading enterprise.

Our Missions

CIGU people work together, relying on the ceramic electronic component industry, to be more refined and stronger in this business field. To provide customers with superior products and outstanding services, to benefit employees, and to contribute to the society!

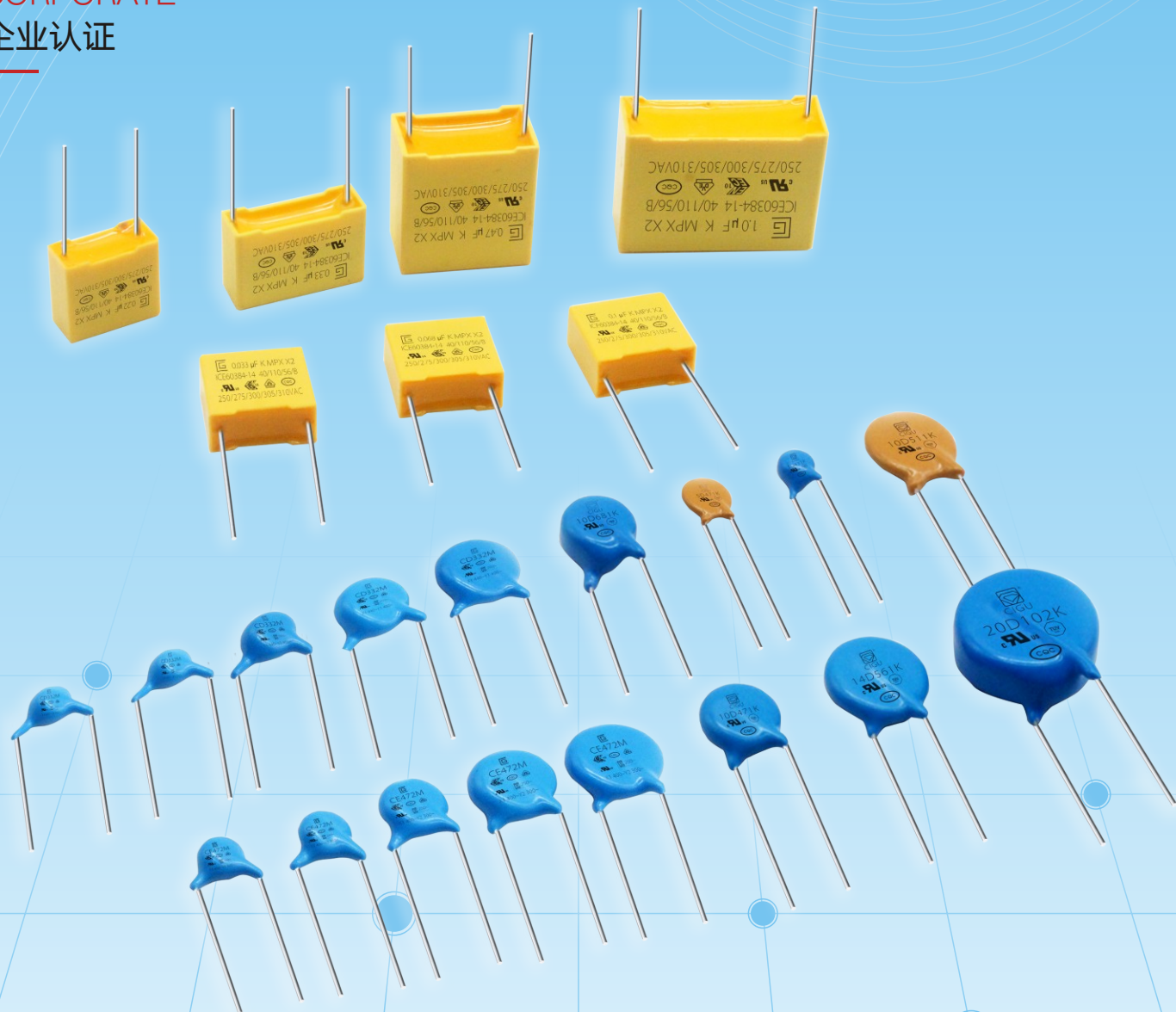
Our Spirit

Focus on goals, contributions and achievements; Not afraid of difficulties, always optimistic, enterprising and pursue excellence.

Core Values

People-oriented, mutual respect, teamwork, lean management, customer first, hard work and innovation, integrity management, win-win cooperation.

ENTERPRISE CORPORATE 企业认证



公司已经通过ISO9001：2015质量管理体系认证。安规交流陶瓷电容器(Y1/Y2)已经通过了中国CQC、美国/加拿大CUL、德国VDE、欧盟ENEC、国际电工委员会CB等产品安全认证。金属膜安规交流电容器(X2)已经通过了中国CQC、美国/加拿大CUL、德国VDE、欧盟ENEC产品安全认证。氧化锌压敏电阻器(ZOV)已经通过了美国/加拿大CUL、德国TUV、中国CQC产品安全认证。产品环保指标符合ROHS、REACH、无卤等指令要求。

The company has passed iso9001:2015 quality management system certification. AC Ceramic Capacitors (Y1 / Y2) have passed the safety certification of CQC, cul, VDE, ENEC and CB. The metal film safety regulation AC capacitor (x2) has passed the product safety certification of CQC of China, cul of USA / Canada, VDE of Germany and ENEC of EU. Zinc oxide varistor (zov) has passed the safety certification of cul in USA / Canada, TUV in Germany and CQC in China. The environmental indicators of the products meet the requirements of RoHS, reach and halogen-free.

■ 安规瓷介电容器认证证书 Certification certificate of ceramic capacitor



Y1-CB认证 Y2-CB认证 Y1-KC认证 Y2-KC认证 CUL认证



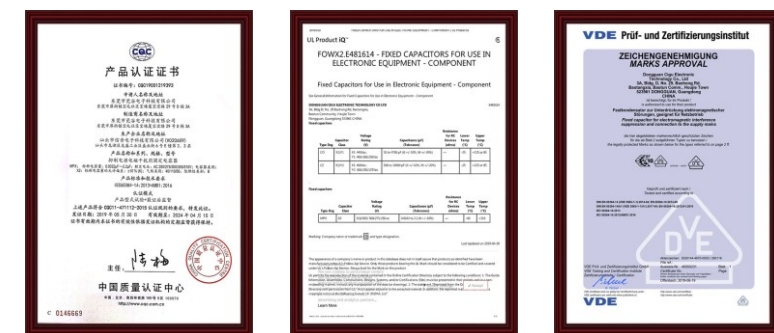
Y1-CQC认证 Y2-CQC认证 Y1-VDE认证 Y2-VDE认证

■ 压敏电阻器认证证书 Certificate of varistor certification



TUV认证 CUL认证 CQC认证

■ x2电容器认证证书 X2 capacitor certification certificate



CQC认证 CUL认证 VDE认证

安规瓷介电容器

SAFETY REGULATIONS VOLTAGE
CERAMIC CAPACITORS

安规瓷介电容器具有高介电系数的陶瓷介质和阻燃的环氧树脂封装，适用于电子设备的电源电路噪声抑制电路中，也可以用作天线耦合跨接和旁路电路中。

The AC disc ceramic capacitors have dielectric of high dielectric constant ceramic and encapsulation of flame retardant epoxy . These capacitor s areused in circuits of noise suppression circuit of power supply for general electronic equipment , and may be used as antenna coupling , Crossing and byPass circuit .



适用标准

Applicable standards

IEC 60384-14 抑制电源电磁干扰用固定电容器
IEC 60384-14 Fixed capacitors for EMI suppression of power supply

技术指标

Specifications

名称 Item	技术要求 Specification		
工作温度范围 Operating temperature range	-25~+85℃ / -25~+125℃		
认证符号 Certification symbol	CQC,CUL,ENEC,VDE,KC,CB		
电容量范围 Capacitance range	Y1:10pf ~4700pF	Y2:100pF~10000pF	
测试条件 Test conditions	Measured at 1KHz ± 10%, 1.0Vrms, 25℃		
额定电压与测试电压 Rated voltage and test voltage	X1:440VAC Y1:400VAC	X1:400VAC Y2:300VAC	Y1:4000VAC Y2:2600VAC for 1 min
绝缘电阻 Insulation resistance	≥10000MΩ min at100VDC and 1 minute electrification		
温度特性 Temperature characteristic	Y5P	Y5U	Y5V
损耗角正切 Disspation factor(DF)	≤2.5%	≤2.5%	≤3.5%
容量偏差 Capacity deviation	K ± 10%	K ± 10% M ± 20%	M ± 20%
容量变化 Capacity change	± 10%， max	+ 22%， -56% max	+ 22%， -82% max

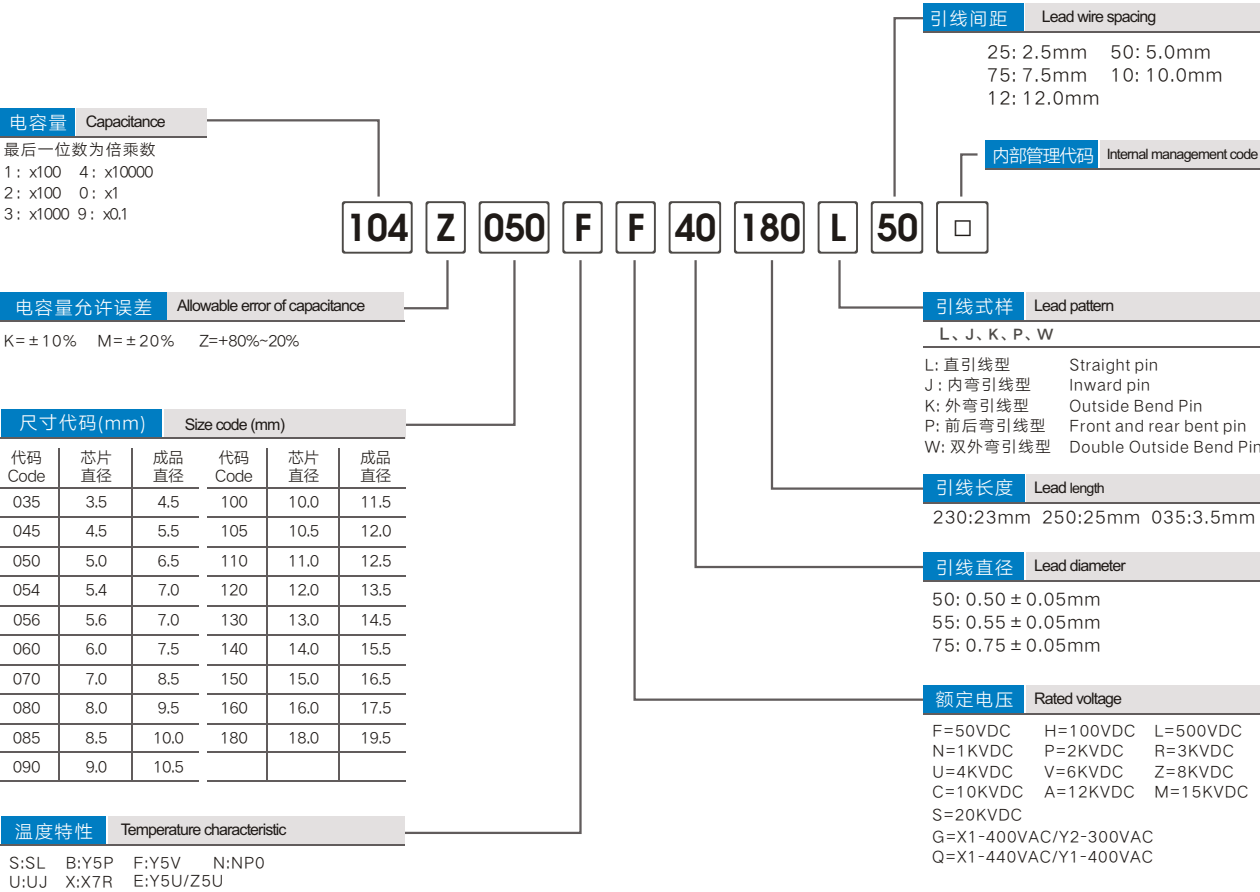
安全标准和认证号码

Safety standards and certification numbers

国家 country	认证组织 Certification organization	标准号 Standard number	证书号 Certificate number		额定电压 Rated voltage		核准商标
			CD (Y1)	CE (Y2)	CD (Y1)	CE (Y2)	Approved Monogram
美国/加拿大	UL/CUL	UL60384-14	E481614	E481614	X1:440VAC Y1:400VAC	X1:400VAC Y2:300VAC	
中国	CQC	IEC60384-14	CQC16001141130	CQC16001141129			
德国	VDE	En 60384-14	40043434	40043430			
欧盟	ENEC	En 60384-14	40043434	40043430			
国际电工委员会	IEC-CB	IEC60384-14	DE1-60489	DE1-56584			CB
韩国	KTC	KC60384-14	SU03086-16002	SU03086-16001	250VAC		

产品编码

Product code



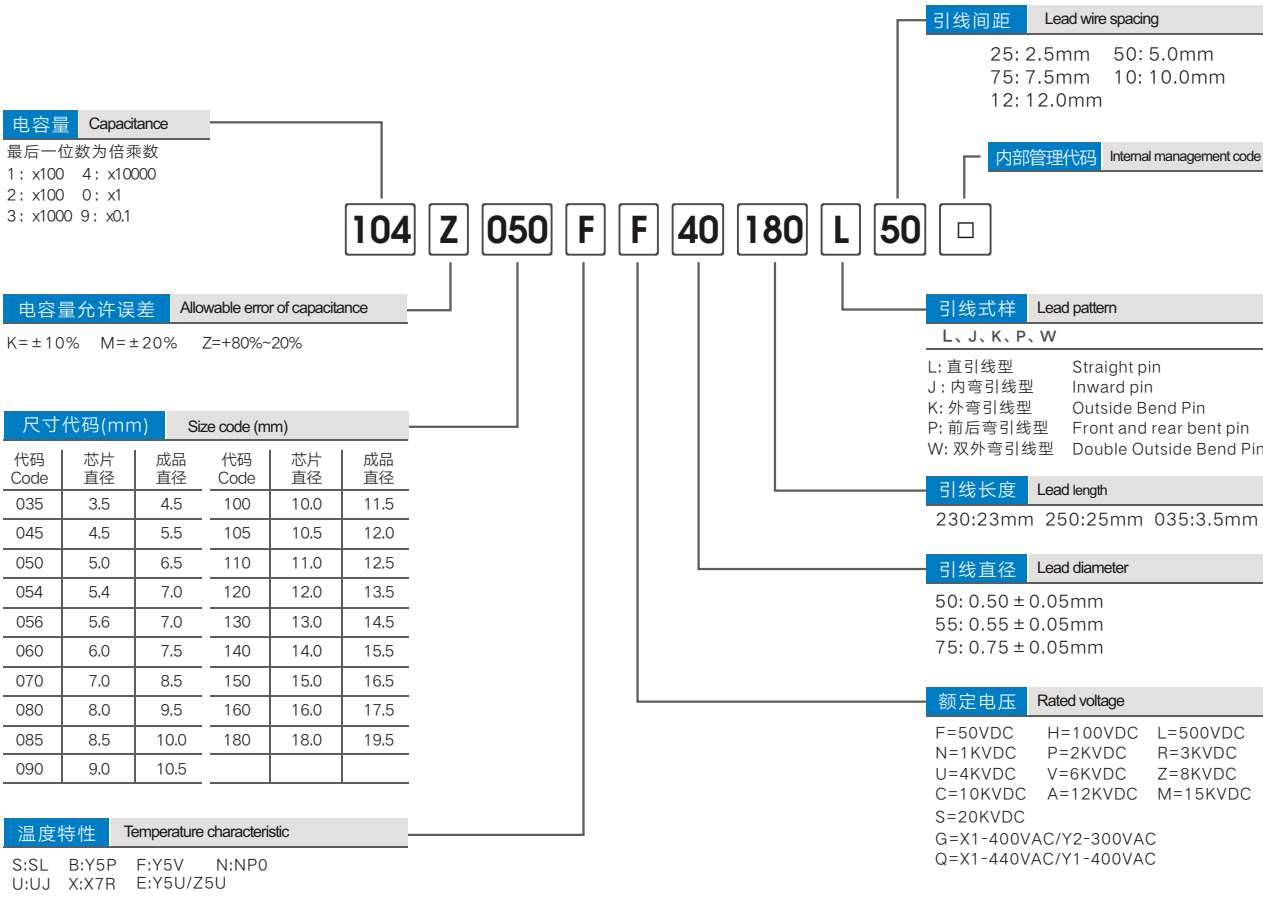
陶瓷电容器 I 类(温度补偿型)
CAPACITOR(T-C)

专门设计并用在低损耗，电容稳定性高或要求温度系数有明确规定的阶振电路中的一种电容器。例如：在电路中作温度补偿之用。

Specially designed and used in low loss, high capacitance stability or the temperature coefficient is required to be specified A capacitor in a circuit. For example: in the circuit for temperature compensation.



产品编码
Product code



技术指标
Specifications

引用标准 Reference standard	GB/T 5966			
工作温度范围 Operating temperature range	-25℃ ~ + 85℃			
电容值范围与测试条件 Capacitance range and test conditions	10pF~100pF measured at 1M Hz±10%,1.0Vrms,25℃			
绝缘电阻 Insulation resistance	10000M Ω min at 500VDC and 1 minute electrification			
工作电压 Working voltage	500VDC ~ 6KVDC			
测试条件 Testing conditions	额定电压 Rated Voltage	测试电压 Test Voltage	时间 Time	工作电流 Current
	Ur ≤ 1000 V	3Ur	1~5 sec	≤ 50mA
	1000V > Ur =≤ 3KV	1.5Ur + 500V		
	Ur ≥ 4KV	1.5Ur		
材质特性 Material properties	NP 0		SL	
损耗角正切 Disspation factor(DF)	C< 30PF Q≥400+20xC C≥30PF Q≥1000			
容量变化 Capacity change	± 60 PPM/℃		± 350 ~-1000 PPM/℃	
容量偏差 Capacity deviation	J±5% K±10%			

测试参考温度：25℃ The reference test temperature:25℃

陶瓷电容器 II 类(高介电常数型)
CAPACITOR(HI-K)

适用于作旁路，耦合或在对损耗和电容量稳定性要求不高的电路中具高介电常数的一种电容器。该类陶瓷介质是以在类别温度范围内电容量非线性变化来表示。

It is suitable for bypass, coupling or stability of loss and capacitance A high dielectric constant in a circuit with low qualitative requirements Container. This type of ceramic medium is electrically charged in the temperature range of the class It is represented by the nonlinear change of capacity.



技术指标
Specifications

引用标准 Reference standard	GB/T 5968			
工作温度范围 Operating temperature range	-25℃ ~ + 85℃			
电容值范围与测试条件 Capacitance range and test conditions	100pF~47000 pF measured at 1K Hz±10%,1.0Vrms,25℃			
绝缘电阻 Insulation resistance	10000M Ω min at 500VDC and 1 minute electrification			
工作电压 Working voltage	500VDC ~ 20KVDC			
测试条件 Testing conditions	额定电压 Rated Voltage	测试电压 Test Voltage	时间 Time	工作电流 Current
	UR ≤ 1000 V	3UR	1~5 sec	≤ 50mA
	1000V > UR =≤ 3KV	1.5UR + 500V		
	UR ≥ 4KV	1.5UR		
材质特性 Material properties	Y5P		Y5U	Y5V
损耗角正切 Disspation factor(DF)	≤ 2.5%		≤ 2.5%	≤ 2.5%
容量变化 Capacity change	± 10% Max		+ 22% -56% Max	+ 22% -82% Max
容量偏差 Capacity deviation	K ± 10% M ± 20% Z+ 80% -20%			

测试参考温度：25℃ The reference test temperature:25℃

产品编码
Product code

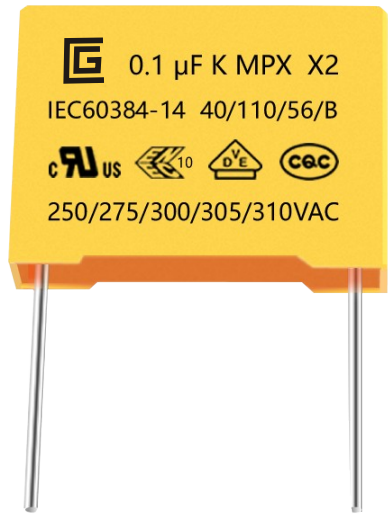
容量 Capacitance		引线间距 Lead wire spacing	
最后一位数为倍乘数 1: x100 4: x10000 2: x100 0: x1 3: x1000 9: x0.1		25: 2.5mm 50: 5.0mm 75: 7.5mm 10: 10.0mm 12: 12.0mm	
容量允许误差 Allowable error of capacitance		内部管理代码 Internal management code	
K= ± 10% M= ± 20% Z=+80%-20%		104 Z 050 F F 40 180 L 50 □	
尺寸代码(mm) Size code (mm)		引线式样 Lead pattern	
代码 Code 芯片直径 成品直径 035 3.5 4.5 045 4.5 5.5 050 5.0 6.5 054 5.4 7.0 056 5.6 7.0 060 6.0 7.5 070 7.0 8.5 080 8.0 9.5 085 8.5 10.0 090 9.0 10.5		L、J、K、P、W L: 直引线型 Straight pin J: 内弯引线型 Inward pin K: 外弯引线型 Outside Bend Pin P: 前后弯引线型 Front and rear bent pin W: 双外弯引线型 Double Outside Bend Pin	
代码 Code 芯片直径 成品直径 100 10.0 11.5 105 10.5 12.0 110 11.0 12.5 120 12.0 13.5 130 13.0 14.5 140 14.0 15.5 150 15.0 16.5 160 16.0 17.5 180 18.0 19.5		引线长度 Lead length	
		230:23mm 250:25mm 035:3.5mm	
		引线直径 Lead diameter	
		50: 0.50 ± 0.05mm 55: 0.55 ± 0.05mm 75: 0.75 ± 0.05mm	
温度特性 Temperature characteristic		额定电压 Rated voltage	
S:SL B:Y5P F:Y5V N:NP0 U:UJ X:X7R E:Y5U/Z5U		F=50VDC H=100VDC L=500VDC N=1KVDC P=2KVDC R=3KVDC U=4KVDC V=6KVDC Z=8KVDC C=10KVDC A=12KVDC M=15KVDC S=20KVDC G=X1-400VAC/Y2-300VAC Q=X1-440VAC/Y1-400VAC	



金属化聚丙烯膜抗干扰电容器(X2)
METALLIZED POLYPROPYLENE FILM EMI CAPACITOR
CLASS-X2

主要用途：
适用于高频、直流、交流、耦合，跨接脉动电路中。

特点：
能承受过压冲击 优异的阻燃性能
塑料外壳(UL94V-0)，阻燃环氧树脂填充
结构组合：
介质：聚丙烯膜 电极：金属蒸镀层(锌铝合成加厚型)
外壳：阻燃PBT塑壳(UL94V-0) 封装：阻燃环氧树脂(UL94V-0)
导线：镀锡铜包钢线



Main uses:
It is suitable for high frequency, DC, AC, coupling, bridging pulse circuit. characteristic
Able to withstand over-voltage impact
Excellent flame retardant performance
Plastic case (UL94V-0), filled with flame retardant epoxy resin.

Structural combination
Medium: polypropylene film
electrode: metal evaporation coating (zinc aluminum synthesis thickening type)
Shell: flame retardant PBT plastic shell (UL94V-0)
package: flame retardant epoxy resin (UL94V-0)
Conductor: tinned copper clad steel wire

适用标准
Applicable standards

Reference Standards
GB-T2693-2001 (IDT IEC 60384-1-2008) 电子设备用固定电容器 第1部分 总规范
GB-T14472-1988 电子设备用固定电容器 第16部分 分规范 金属化聚丙烯膜介质直流固定电容器
IEC-60384-14-2005 电子设备用固定电容器 第16部分 分规范 金属化聚丙烯膜介质直流固定电容器

GB-T2693-2001 (IDT IEC 60384-1-2008) Fixed capacitors for use in electronic equipment - Part 1 General specification
GB-T14472-1988 Fixed capacitors for use in electronic equipment Part 16: Sectional specification Fixed metallized polypropylene film dielectric d.c. capacitors
IEC-60384-14-2005 Fixed capacitors for use in electronic equipment Part 16: Sectional specification Fixed metallized polypropylene film dielectric d.c. capacitors

技术指标
Specifications

气候类别/阻燃等级 Climate category / Flame retardant grade	40/110/56/B	电容偏差 Capacitance Deviation	± 10%(K) , ± 20%(M)
工作稳定范围 Stable working range	-40℃~110℃	绝缘电阻 Insulation Resistance	CR ≤0.33uF IR≥15000 MΩ CR > 0.33uF IR≥5000 MΩ/CAP(uF)
额定电压 Rated voltage	275Vac(SMXW) 310Vac(SMXV)	损耗角正切 Disspation factor(DF)	0.1% Max , at 1KHz and 25℃
电容量范围 Capacitance range	0.001 μ F(102)~10 μ F(106)	耐受电压 Voltage Proof	4.3Ur(DC)/5S

安全标准和认证号码
Safety standards and certification numbers

国家 country	认证组织 Certification organization	标准号 Standard number	证书号 Certificate number	核准商标 Approved Monogram
美国/加拿大	UL/CUL	UL 60384-14	E481614	
中国	CQC	IEC60384-14	CQC19001219393	
欧盟	ENEC	En 60384-14	40050231	
德国	VDE	En 60384-14	40050231	

产品编码
Product code

额定电压	Rated voltage
代码 Code	A B C D E F G H J K L M N
1	10 125 16 20 25 31.5 40 50 63 80 / / /
2	100 125 160 200 250 315 400 500 630 800 120 / /
3	1000 1250 1600 2000 2500 3150 4000 5000 6300 8000 1200 1400 /
代码 Code	P Q R S T U V W X Y
1	240 300 330 440 / / 700 / 900 18
2	275 305 350 450 / / 760 / / 180
3	280 310 / 480 / / / / / 1800

内部管理类	Internal management code
环保类型	Environmental protection type
E: 环保产品RoHS、REACH类 F: 环保产品符合无卤类	
内部管理预留码	Internal reservation code

X2 P2 104 K Q 1 B0 180 120 060 E S 0

产品类别	Product category
X2: X2(275V-310V) 盒式金属化聚丙烯膜抗干扰电容器 L2: CL21 金属化聚酯膜电容器 B2: CBB21 金属化聚丙烯膜电容器(封装型)	

标称容量	Nominal capacity
101=100PF 102=1000PF 103=10nF 104= 100nF 105=1.0μF 106=10μF	

标称容量允许误差	Capacity error
F= ± 1.0% G= ± 2.0% H= ± 2.5% I= ± 3.0% J= ± 5.0% K= ± 10%	

引脚间距	Pin spacing				
代码 Code	脚距 (MM)	代码 Code	脚距 (MM)	代码 Code	脚距 (MM)
A	3.5	J	7.5	S	20.0
B	4.0	K	8.0	T	22.5
C	4.5	L	8.5	U	25.0
D	5.0	M	9.0	V	27.5
E	5.5	N	10.0	W	30.0
F	6.0	P	12.5	X	4.1
G	6.5	Q	15.0	Y	4.3
H	7.0	R	17.5	Z	/

宽度width	厚度Thickness	高度Height
产品尺寸 Product size 如: 18*16*10 (mm) 编号为180 160 100 如: 26.5*16.5*7 (mm) 编号为265 165 070		

引脚长度	Pin length				
代码 Code	引脚 长度	代码 Code	引脚 长度	代码 Code	引脚 长度
30	3.0	80	8.0	B0	20.0
35	3.5	90	9.0	B2	22.0
40	4.0	95	9.5	B3	23.0
45	4.5	A0	10.0	B4	24.0
50	5.0	A1	11.0	B5	25.0
55	5.5	A2	12.0	B7	27.0
60	6.0	A3	13.0	C0	30.0
65	6.5	A4	14.0	C2	32.0
70	7.0	A5	15.0		
75	7.5	A6	16.0		

引脚形状	Pin shape		
 1=直脚 2=内弯 3=内窄 4=外宽 如, 产品为10间距, 内弯成7.5间距, 第10码用“3”。			

金属化聚酯膜电容器(CL21)

METALLIZED POLYESTER FILM
CAPACITOR CL21

主要用途：
适用于直流和VHF级信号的隔直流,旁路和耦合,广泛用于滤波,低脉冲电路。

特点：
金属化聚酯薄膜,无感卷绕结构,
容量范围宽,体积小,重量轻,
自愈性好,寿命长,阻燃性环氧树脂包封。

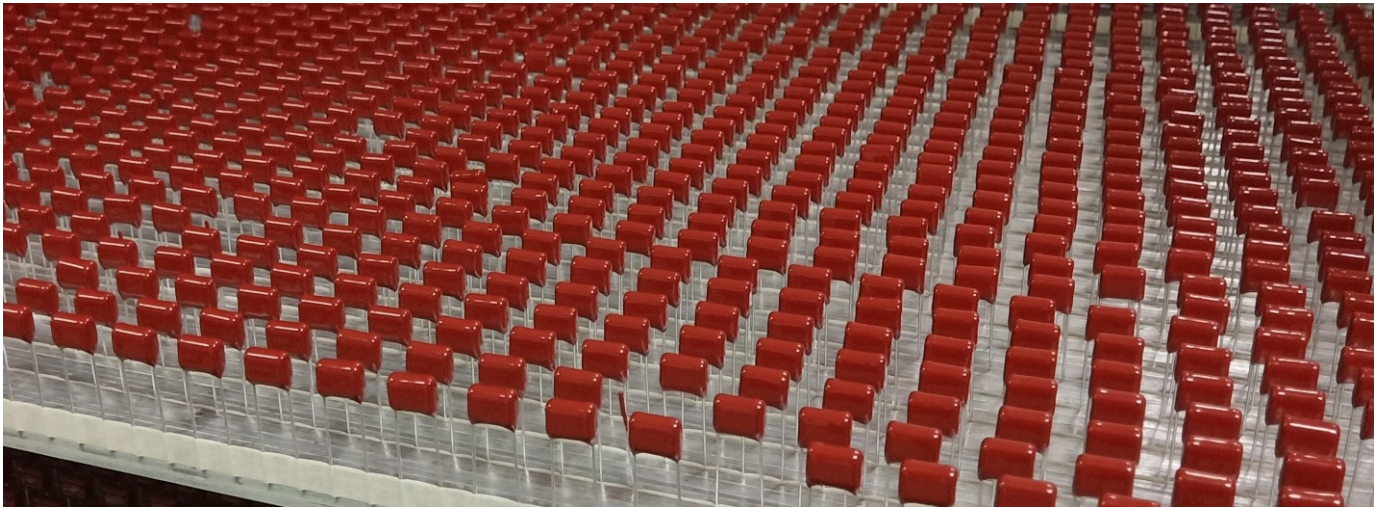
Main uses:
Suitable for DC and VHF signal isolation, bypass and coupling,
widely used in filtering, low pulse circuit.

characteristic:
Metallized polyester film, non inductive winding structure,
Wide capacity range, small size, light weight,
Good self-healing, long life,
Flame retardant epoxy resin encapsulation.

适用标准
Applicable standards
GB7332(IEC60384-2)

技术指标
Specifications

引用标准	Reference Standard	GB/T 7332(IEC 60384-2)
气候类别	Climate Category	55/105/21
工作温度范围	Operating Temperature Range	-55℃~ +105℃
电容量范围	Capacitance Range	0.001uF ~ 10 uF
额定电压	Rated Voltage	100V /250V/400V/630V
电容偏差	Capacitance Deviation	± 5%(J) / ± 10%(K)
承受电压	Withstand Voltage	1.5UR(5S)
损耗角正切	Disspation factor(DF)	≤1.0% (20℃ 1KHz)
绝缘电阻	Insulation Resistance	> 15000 MΩ C≤0.33uF > 10000 MΩ C> 0.33uF 20℃ 100V 60S



产品编码
Product code

额定电压		Rated voltage													
代码 Code		A	B	C	D	E	F	G	H	J	K	L	M	N	
1	10	125	16	20	25	31.5	40	50	63	80	/	/	/	/	
2	100	125	160	200	250	315	400	500	630	800	120	/	/	/	
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	1200	1400	/	/	
代码 Code		P	Q	R	S	T	U	V	W	X	Y				
1	240	300	330	440	/	/	/	700	/	900	18				
2	275	305	350	450	/	/	/	760	/	/	180				
3	280	310	/	480	/	/	/	/	/	1800					

内部管理码	Internal management code
环保类型	Environmental protection type
E: 环保产品RoHS、REACH类 F: 环保产品符合无卤类	
内部管理预留码	Internal reservation code

X2 P2 104 K Q 1 B0 180 120 060 E S 0

产品类别 Product category
X2: X2(275V-310V)
盒式金属化聚丙烯膜抗干扰电容器
L2: CL21
金属化聚酯膜电容器
B2: CBB21
金属化聚丙烯膜电容器(包封型)

标称容量	Nominal capacity
101=100PF	102=1000PF
103=10nF	104= 100nF
105=1.0μF	106=10μF

标称容量允许误差	Capacity error
F= ± 1.0% I= ± 3.0%	G= ± 2.0% J = ± 5.0% H= ± 2.5% K= ± 10%

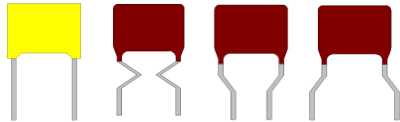
引脚间距		Pin spacing			
代码 Code	脚距 (MM)	代码 Code	脚距 (MM)	代码 Code	脚距 (MM)
A	3.5	J	7.5	S	20.0
B	4.0	K	8.0	T	22.5
C	4.5	L	8.5	U	25.0
D	5.0	M	9.0	V	27.5
E	5.5	N	10.0	W	30.0
F	6.0	P	12.5	X	4.1
G	6.5	Q	15.0	Y	4.3
H	7.0	R	17.5	Z	/

宽度width	厚度Thickness
高度Height	

产品尺寸 Product size
如: 18*16*10 (mm) 编号为180 160 100
如: 26.5*16.5*7 (mm) 编号为265 165 070

引脚长度		Pin length			
代码 Code	引脚 长度	代码 Code	引脚 长度	代码 Code	引脚 长度
30	3.0	80	8.0	B0	20.0
35	3.5	90	9.0	B2	22.0
40	4.0	95	9.5	B3	23.0
45	4.5	A0	10.0	B4	24.0
50	5.0	A1	11.0	B5	25.0
55	5.5	A2	12.0	B7	27.0
60	6.0	A3	13.0	C0	30.0
65	6.5	A4	14.0	C2	32.0
70	7.0	A5	15.0		
75	7.5	A6	16.0		

引脚形状 Pin shape



1=直脚 2=内弯 3=内窄 4=外宽
如, 产品为10间距, 内弯成7.5间距, 第10码用“3”。

金属化聚丙烯膜电容器(CBB21)
METALLIZED POLYPROPYLENE FILM
CAPACITOR CBB21

主要用途：
广泛用于高频,直流，交流和脉动电路中。电子式镇流器，开关模式
电源供应器，适用于各种高频，大电流场合。

特点:
金属化聚丙烯膜，无感卷绕结构，
高频损耗小，内部温升小，
阻燃性环氧树脂封装。

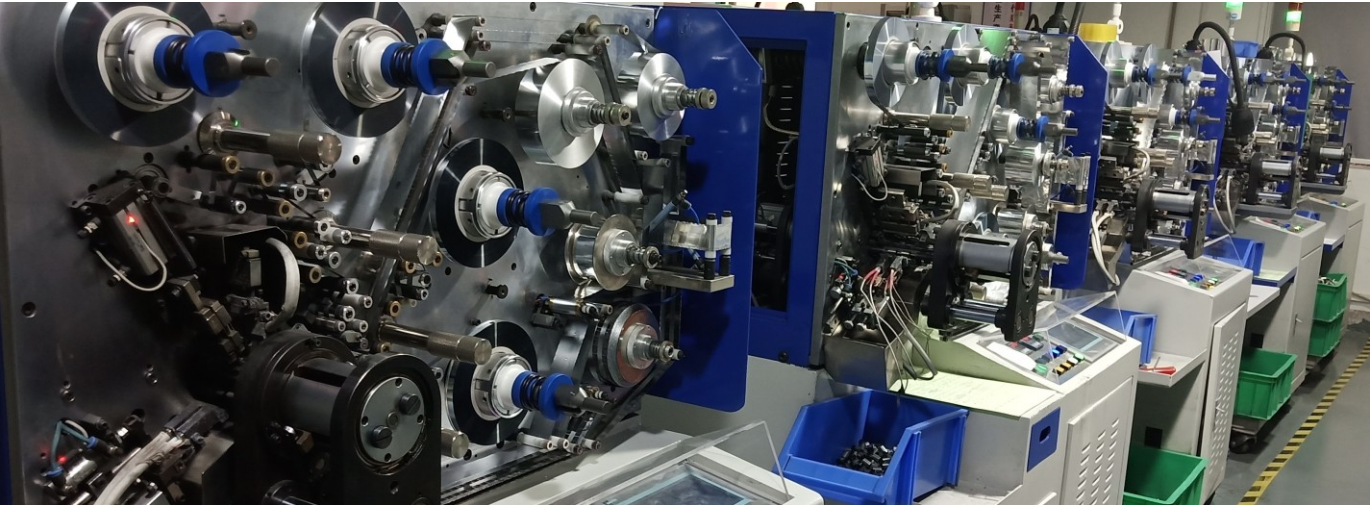
Main uses:
It is widely used in high frequency, DC, AC and pulse circuits. Electronic
ballast, switching mode power supply Supply device, suitable for all kinds
of high frequency, high current occasions.

characteristic:
Metallized polypropylene film, non inductive winding structure,
Low high frequency loss and low internal temperature rise,
Flame retardant epoxy resin encapsulation.

适用标准
Applicable standards
GB/T10190(IEC60384-17)

技术指标
Specifications

Table with 2 columns: Parameter (e.g., 引用标准, 气候类别, 工作温度范围) and Value (e.g., GB/T 14579(IEC 60384-17), 40/105/21, -40°C~ +105°C).



产品编码
Product code

Table with 2 main sections: 额定电压 (Rated voltage) and 代码 (Code). The first section lists codes A-N with corresponding voltage values. The second section lists codes P-Y with corresponding voltage values.

Table with 2 columns: 内部管理码 (Internal management code) and 环保类型 (Environmental protection type). It includes codes for RoHS/REACH compliance and internal reservation codes.

Diagram showing the breakdown of the product code X2 P2 104 K Q 1 B0 180 120 060 E S 0 into categories like Product category, Product size, Pin length, and Pin shape.

氧化锌压敏电阻器

ZINC OXIDE VARISTOR

主要用途：
电晶体、半导体闸流管或硅控整流器及半导体的保护。
电子产品的突波保护。继电器及电磁阀之突波吸收。
家用电器，天然器及石油装置的突波保护。

特点：
反应时间快 25nS，可即时抑制突波电压。
具有耐高突波电流冲击的能力。
低抑制电压，提供更好的突波/雷击保护。
低电容值，可提供数位式开关电路保护。

Main uses:
It is widely used in high frequency, DC, AC and pulse circuits.
Electronic ballast, switching mode power supply Supply device,
suitable for all kinds of high frequency, high current occasions.

characteristic:
Metallized polypropylene film, non inductive winding structure,
Low high frequency loss and low internal temperature rise,
Flame retardant epoxy resin encapsulation.

适用标准

Applicable standards

GB/T10193-1997 电子设备用压敏电阻器 第1部分：总规范
GB/T10194-1997 电子设备用压敏电阻器 第2部分：分规范 浪涌抑制型压敏电阻器
GB/T10193-1997 Varistors for use in electronic equipment - Part 1: Generic specification
GB/T10194-1997 Varistors for use in electronic equipment - Part 2: Sectional specification surge suppression varistors

技术指标

Specifications

引用标准 Reference Standard	GB/T 10193/94-1997				
工作温度范围 Operating Temperature Range	-40℃~ +125℃				
存储温度范围 Storage Temperature Range	-10℃~ +30℃				
压敏电压 Varistor Voltage	5D	7D	10D	14D	20D
	180K~681K	180K~821K	180K~112K	180K~182K	180K~182K



安全标准和认证号码

Safety standards and certification numbers

国家 country	认证组织 Certification organization	标准号 Standard number	证书号 Certificate number	核准商标 Approved Monogram
美国/加拿大	UL/CUL	CUL UL 1449	E511075	
中国	CQC	GB/T10193-1997	CQC20001257131	
德国	TUV	ICE 61051-1	B1088300001	

产品编码

Product code

