



台湾昱电/昆山弘聚电子有限公司

UTX Electronics CO.LTD.



承認書

SPECIFICATION FOR APPROVAL

客戶名稱：

CUSTOMERS : _____

品名規格：

SEPCIFICATION : _____ RC抗干扰阻容模块

客戶料號：

CUSTOMERS M. NO : _____

產品料號：

SUPPLIER M. NO : _____ HCR333K120 Ω 04SNY

主辦工程師：

CHIEF ENGINEER :

日期：2018.8.10

DATE :

工程 R & D	品管 Q. C.	授權 APPROVED BY
董丁丁	刘珊珊	顾小华

客戶承認簽章：

CUSTOMER :

日期： 年 月 日

DATE :

元件功能：		使用條件：	
承認書更新			

請貴司務必填寫，以便我司備料指定作業。



昱電實業股份有限公司

Ultra Tech Xiphi Enterprise Co., Ltd.

HCR

金屬化聚丙烯薄膜抗干扰阻容模块 (HCR 250/275/300/330Vac)

Metallized Polypropylene film interference suppression RC-unit
(HCR 250/275/300/330Vac)

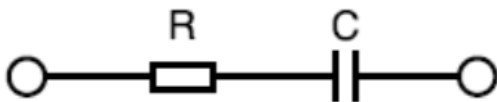


● 產品說明 Product description

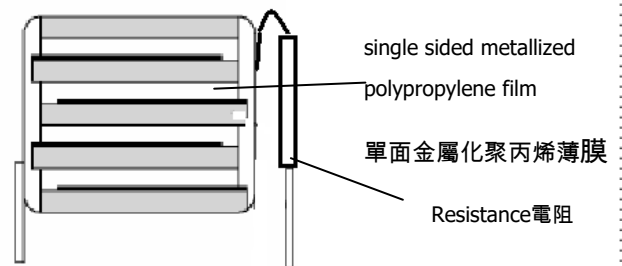
电容和电阻串联，具有良好的抑制噪音，吸收能量尖峰和阻尼作用，广泛用于空调控制电路

Capacitors and resistors are connected in series, which have good noise suppression, energy absorption peak and damping effects, and are widely used in air-conditioning control circuits

● 电路结构图 Electrical connection



产品結構圖 Product structure



● 特性 Feature

- 金属化聚丙烯膜
- 能承受过压冲击
- 优异的阻燃性能
- 抑制噪音，吸收能量尖峰和阻尼作用
- Metallized polypropylene structure
- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- Excellent active noise suppression, absorbing peak and energy

● 產品認證与標準 Safety Approvals

	UL/CUL 美国/加拿大	HCR 250/275/300/310/330Vac 0.001μF~1.0μF, 40/110/56/B	UL60384-14:2005 证书号: E183780
	ENEC-VDE 欧盟	HCR 250/275/300/310/330Vac 0.001μF~1.0μF, 40/110/56/B	EN60384-14:2013 证书号: 40047995
	CQC 中国	HCR 300 Vac 0.01μF~0.1μF, 40/100/21/C	GB/T6346.14-2015 证书号: CQC06001016485



昱電實業股份有限公司

Ultra Tech Xiphi Enterprise Co., Ltd.

HCR

● 技术要求 Specifications

电容器类别 Class	HCR/HQXR	
气候类别 / 阻燃等级 Climatic Category/Passive Flammability Category	40/100/56/B	
工作温度范围 Operating Temperature Range	-40~100℃	
额定电压 Rated Voltage (U_R)	300Vac, 50/60Hz,	
电容量范围和偏差 Capacitance Range And Tolerance	0.010 μ F ~ 1.0 μ F, $\pm 20\%$ (M)	
电阻范围和偏差 Resistance Range And Tolerance	10.0 Ω ~ 1000.0 Ω , $\pm 30\%$ $C_N R_N < 50\mu$ s, 100kHz $C_N R_N \geq 50\mu$ s, 1kHz	
耐电压 Voltage Proof	引线之间 Between Terminals:	4.3 U_R (dc), 2s
	极壳之间 Between Terminals To Case:	2 100Vac, 1min
绝缘电阻 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℃, 100V, 1min)	



昱 电

Electrical Characteristics (电气特性)

Number 编 号	Capacitance 标称电容量	Rated voltage 额定电压(V)	Test voltage 耐电压(V)	Insulation resistance 绝缘电阻(MΩ)	Dissipation factor 损耗角正切
1	0.033uF	300V	1200VDC/60S	$\geq 3 \times 10^4$	≤ 0.0285
2					
3					
4					
5					

相关要求(备注):



SPECIFICATION

ACROSS-THE-LINE AND INTERFERENCE SUPPRESSION CAPACITOR HCR

- REFERENCE STANDARDS:
AMERICA : UL (U.S.A.) : UL 1414 – 5th Edition (1998)
CSA (Canada) : CSA - C22.2 No 1-98
EUROPE : IEC 384-14 Second Edition (1993) including Am.1(1995)
[Safety tests] / EN 132400 (1994)
ASIA : CQC(China) :
GB / 14472 – 1998 Equals to IEC 384 – 14(1993)
- RATED VOLTAGE : 300VAC, 50~60HZ
- CAPACITANCE RANGE : 0.0047 μ F~1.0 μ F
- CAPACITANCE TOLERANCE : J ($\pm 5\%$), K ($\pm 10\%$), M ($\pm 20\%$)
- DIELECTRIC : METALLIZED POLYPROPYLENE FILM
- DISSIPATION FACTOR TAN δ : $\leq 2\text{nfCR}$ AT 1KHZ / 20 $^{\circ}$ C
- INSULATION RESISTANCE: BETWEEN TERMINALS
(1) LESS THAN OR EQUAL TO 0.33 μ F ; $\geq 3 \times 10^4 \text{M}\Omega$
(2) GREATER THAN 0.33 μ F ; $\geq 1 \times 10^4 \text{M}\Omega \cdot \mu\text{F}$
MEASURED AT 100 ± 15 VDC, 60SEC./20 $^{\circ}$ C
- WITHSTAND VOLTAGE :
TEST VOLTAGE 4.3Urdc/2s
C > 0.33 μ F Climb time: 0.8s CREEPAGE : >10mA 20mA MAX
C \leq 0.33 μ F Climb time: 0.5s CREEPAGE : >5mA 10mA MAX
- CLIMATIC CATEGORY : IN ACCORDANCE WITH DIN 40040 GMF
G (MINIMUM LIMIT TEMPERATURE) = - 40 $^{\circ}$ C
M (MAXIMUM LIMIT TEMPERATURE) = + 100 $^{\circ}$ C
F (HUMIDITY CATEGORY) = AVERAGE RELATIVE HUMIDITY $\leq 75\%$
95% FOR 30 DAYS PER YEAR CONTINUOUSLY
85% FOR THE REMAINING DAYS OCCASIONALLY
- DRY "HEAT" RESISTANCE :
IN ACCORDANCE WITH DIN 40046 SHEET 1 OR IEC 68-2-2 TEST Ba
CONDITIONS :
TEST TEMPERATURE : 100 $\pm 2^{\circ}$ C
TEST DURATION : 16 HOURS
TEST CRITERIA :
(1) APPEARANCE : NO VISIBLE DAMAGE AND NO LEAKAGE.
(2) WITHSTAND VOLTAGE : 0.66 \times RATED WITHSTAND VOLTAGE 60 SEC.
(3) CAPACITANCE CHANGE : $\leq \pm 5\%$ OF THE INITIAL VALUE
(4) INSULATION RESISTANCE : $\geq 50\%$ OF INITIAL SPECIFIED VALUE
- COLD RESISTANCE
IN ACCORDANCE WITH DIN 40046 SHEET 1 OR IEC 68-2-1 TEST Ba
CONDITIONS
TEST TEMPERATURE : - 40 $\pm 2^{\circ}$ C
TEST DURATION : 2 HOURS
TEST CRITERIA :
(1) APPEARANCE : NO VISIBLE DAMAGE
(2) WITHSTAND VOLTAGE : 0.66 \times RATED WITHSTAND VOLTAGE 60 SEC.
(3) CAPACITANCE CHANGE : $\leq \pm 5\%$ OF THE INITIAL VALUE

性能說明

跨接及抑制干擾用 HCR 系列電容器

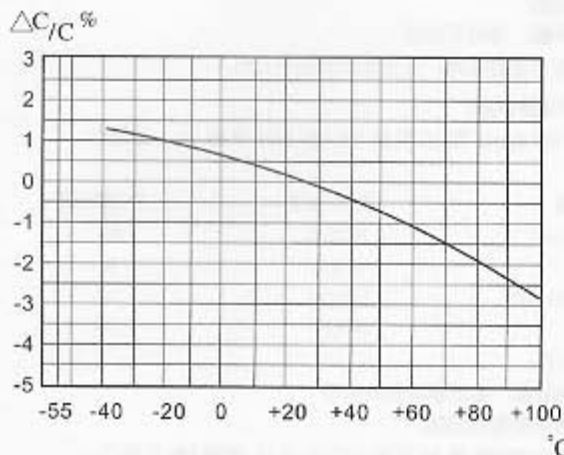
- 參考標準：
美洲：UL (美國) : UL1414 第五版 (1998)
CSA (加拿大) : CSA- C22.2 No1-98
歐洲：IEC384-14 第二版 (1993) 含於 Am.1(1995)
[安全測試] EN 132400(1994)
亞洲：CQC(中國) :
GB / 14472 – 1998 等同於 IEC 384 - 14(1993)
- 額定電壓：300 VAC，50 ~ 60 HZ
- 電容量範圍：0.0047 μ F~1.0 μ F
- 電容量偏差範圍：J ($\pm 5\%$)，K ($\pm 10\%$)，M ($\pm 20\%$)
- 電介質：金屬化聚丙烯薄膜
- 損耗角正切： $\leq 2\text{nfCR}$ (20 $^{\circ}$ C，1KHZ)
- 絕緣電阻：在引出端之間
(1) 小於或等於 0.33 μ F ; $\geq 3 \times 10^4 \text{M}\Omega$
(2) 大於 0.33 μ F ; $\geq 1 \times 10^4 \text{M}\Omega \cdot \mu\text{F}$
測試條件：20 $^{\circ}$ C，100 ± 15 VDC，60 秒
- 耐電壓：
測試電壓：4.3Urdc/60s(無異常)
C > 0.33 μ F 爬升時間：5s 漏電流：>5mA 20mA MAX
C \leq 0.33 μ F 爬升時間：2s 漏電流：>5mA 10mA MAX
- 氣候類別：根據 DIN 40040 GMF
G [最低溫度]=-40 $^{\circ}$ C
M [最高溫度]=+100 $^{\circ}$ C
F [濕度類別]=平均相對濕度 75%
一年內連續 30 天達 95%
其餘天數偶爾達 85%
- 乾熱試驗：
根據 DIN 40046 第一頁 或 IEC 68-2-2 試驗 Ba 之條件：
試驗溫度：100 $\pm 2^{\circ}$ C
試驗時間：16 小時
試驗判據：
(1) 外觀：無可見損傷及滲出物
(2) 耐電壓：0.66 倍額定電壓下 60 秒 (無異常)
(3) 電容量變化率： \leq 初始測量值的 $\pm 5\%$
(4) 絕緣電阻： \geq 初始規定值的 50%
- 寒冷試驗：
根據 DIN 40046 第一頁或 IEC68-2-1 試驗 Ba 之條件：
試驗溫度：-40 $\pm 2^{\circ}$ C
試驗時間：2 小時
試驗判據：
(1) 外觀：無可見損傷
(2) 耐電壓：0.66 倍額定電壓下 60 秒 (無異常)
(3) 電容量變化率： \leq 初始測量值的 $\pm 5\%$

12. HUMIDITY TEST CONDITIONS :
 TEST TEMPERATURE : 40 ± 2°C
 RELATIVE HUMIDITY : 90 – 95%
 TEST DURATION : 500 HOURS
 TEST CRITERIA :
 (1) WITHSTAND VOLTAGE : 0.66× RATED WITHSTAND VOLTAGE 60 SEC.
 (2) CAPACITANCE DRIFT : ≤ ±5% OF THE INITIAL VALUE.
 (3) DISSIPATION FACTOR: ≤ 200% OF INITIAL SPECIFIED VALUE.
 (4) INSULATION RESISTANCE : ≥ 50% OF INITIAL SPECIFIED VALUE.
13. LIFE. TEST CONDITIONS :
 TEST TEMPERATURE : 100 ± 3°C
 TEST VOLTAGE : 440 VAC AND 1,000VAC / 60HZ FOR A PERIOD OF 0.1 SEC. ONCE EACH HOUR.
 TEST DURATION : 1,008 HOURS
 TEST CRITERIA:
 (1) APPEARANCE : NO VISIBLE DAMAGE AND NO LEAKAGE
 (2) WITHSTAND VOLTAGE : 0.66 × RATED WITHSTAND VOLTAGE 60 SEC
 (3) CAPACITANCE DRIFT : ≤ ±3% OF THE INITIAL VALUE
 (4) DISSIPATION FACTOR : ≤ 0.6×10⁻³ (0.06%) OF INCREASED VALUE
 (5) INSULATION RESISTANCE : ≥ 50% OF SPECIFIED VALUE
14. SOLERABILITY CONDITIONS :
 SOLDER BATH TEMPERATURE: 265 ± 5°C
 SOLDER MATERIAL : Sn99.96%+Ag0.04% (60%Sn+40%Pb) (235±5°C)
 SOLDER TIME: 2 ± 0.5SEC
 TEST CRITERIA :
 75% OF THE SURFACE TINNING
15. SOLDERING HEAT RESISTANCE :
 IN ACCORDANCE WITH DIN 40046 SHEET 18 OF IEC 68-2-20 TEST Ta.1&Tb.1 CONDITIONS :
 SOLDER BATH TEMPERATURE: 265± 5°C
 SOLDER TIME : 3 ± 1 SEC.
 CAPACITANCE BODY MAY LIE ON BRINTING CIRCUIT BOARD
 TEST CRITERIA :
 (1) APPEARANCE : NO DAMAGE AND GOOD TINNING
 (2) CAPACITANCE CHANGE : ≤ ±3% OF THE INITIAL VALUE
16. VIBRATION RESISTANCE:
 IN ACCORDANCE WITH DIN 40046 SHEET 8 OR IEC 68-2-6 TEST FC CONDITIONS.
 FREQUENCE RANGE : 10 — 55HZ
 DISPLACEMENT AMPLITUDE : 0.75mm
 CONFORMING TO MAX. : 10 g
 TEST DURATION : 6 HOURS
 TEST CRITERIA:
 (1) APPEARANCE: NO VISIBLE DAMAGE
 (2) CAPACITANCE CHANGE: ≤ ±2% OF THE INITIAL VALUE
17. TENSILE STRENGTH OF TERMINALS
 IN ACCORDANCE WITH DIN 40046 SHEET 19 OR IEC 68-2-21 TEST Ua.1 CONDITIONS.
- | TERMINAL
DIA. (mm) | LOAD FORCE
KG (N) | HOLDING TIMES
SEC. |
|-----------------------|----------------------|-----------------------|
| <0.5 | 0.5 (5) | 10 |
12. 穩態濕熱試驗：
 測試溫度：40±2°C
 相對濕度：90%至 95%
 試驗時間：500 小時
 試驗判據：
 (1) 耐電壓：0.66 倍額定電壓，60 秒（無異常）
 (2) 電容量漂移：≤ 初始測量值的±5%
 (3) 損耗角正切：≤ 200%的初始規定值
 (4) 絕緣電阻：≥ 初始規定值的 50%
13. 壽命試驗：
 試驗溫度：100±3°C
 試驗電壓：440VAC，每 1 小時將電壓升至 1000 VAC / 60 HZ，
 持續時間 0.1 秒
 試驗持續時間：1008 小時
 試驗判據：
 (1) 外觀：無可見損傷或滲出物
 (2) 耐電壓：0.66 倍額定電壓下 60 秒（無異常）
 (3) 電容量漂移：≤ 初始值的±3%
 (4) 損耗角正切：≤ 0.06%增加值
 (5) 絕緣電阻：≥ 初始規定值的 50%
14. 可焊性試驗：
 焊槽溫度：265 ± 5°C
 焊料成份：錫 99.96% + 銀 0.04% (錫 60%+40%鉛) (235±5°C)
 浸入時間：2 ± 0.5 秒
 試驗判據：
 引線表面 75% 浸上錫
15. 耐焊接熱試驗：
 根據 DIN 40046 第 18 頁或 IEC 68-2-20 試驗 Ta.1 和 Tb.1 之條件：
 焊接溫度：265 ± 5°C
 浸入時間：3 ± 1 秒
 電容器本體與焊料之間用 PC 板隔離
 試驗判據：
 (1) 外觀：無可見損傷且 (引線) 鍍錫層完好無損
 (2) 電容量變化率：≤ 初始測量值的±3%
16. 振動試驗：
 根據 DIN 40046 第 8 頁或 IEC 68-2-6 試驗 Fc 之條件：
 頻率範圍：10~55HZ
 位移：0.75 mm
 最大加速度：10 g
 試驗時間：6 小時
 試驗判據：
 (1) 外觀：無可見損傷
 (2) 電容量變化率：≤ 初始測量值的±2%
17. 引出端強度試驗：
 根據 DIN 40046 第 19 頁或 IEC 68-2-21 試驗 Ua.1 之條件：
- | 引出端
直徑(mm) | 抗張強度
KG(N) | 持續時間
秒 |
|---------------|---------------|-----------|
| <0.5 | 0.5(5) | 10 |

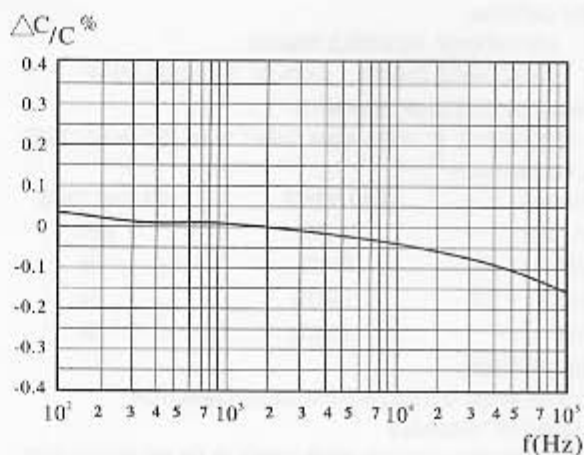
>0.5 TO <0.8	1.0 (10)	10
>0.8	2.0 (20)	20
TEST CRITERIA:		
NO WIRE BREAKAGE AND NO DAMAGE OF CAPACITOR.		
18.	BENDING OF TERMINALS	
	IN ACCORDANCE WITH DIN 40046 SHEET 19 OR IEC 68-2-21 TEST Ub. CONDITIONS	
	LOAD FORCE : 0.5 KG (5N)	
	BENDING TIME : TWO CONSECUTIVE BENDS (4 * 90 C)	
	TEST CRITERIA :	
	NO WIRE BREAKAGE AND NO DAMAGE OF CAPACITOR	
19.	MARKING :	
	CAPACITORS ARE MARKED WITH TYPE IDENTIFICATION CAPACITANCE CAPACITANCE TOLERANCE, RATED VOLTAGE, TEMPERATURE RANGE, NAME OF MANUFACTURE, DATE OF MANUFACTURE AND APPROVED CERTIFICATION MARKS.	

>0.5 TO <0.8	1.0(10)	10
>0.8	2.0(20)	20
試驗判據：		
引線無破裂，電容器本部無損傷		
18.	引出端彎曲強度試驗：	
	根據 DIN 40046 第 19 頁或 IEC 68-2-21 試驗 Ub 之條件：	
	抗彎曲強度：0.5Kg(5N)	
	彎曲時間：左右兩邊連續彎曲(4×90 度)	
	試驗判據：	
	引線無破裂，電容器本體無損傷	
19.	標誌：	
	電容器應清晰標明：電容量、電容量偏差範圍、額定電壓、溫度範圍、製造廠家、生產日期和通過的(安規)認證標誌	

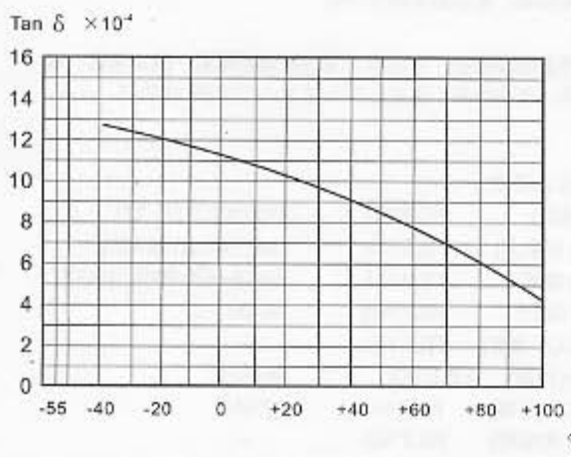
聚丙烯薄膜電容器特性曲線



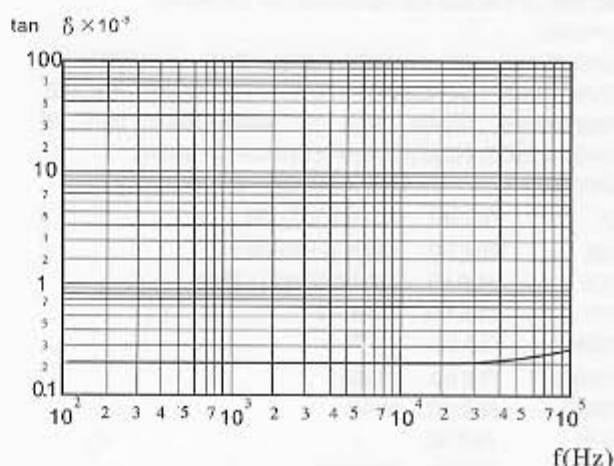
Capacitance change versus temperature $\Delta C/C$ %
容量变化率与温度的关系(在1KHz时)



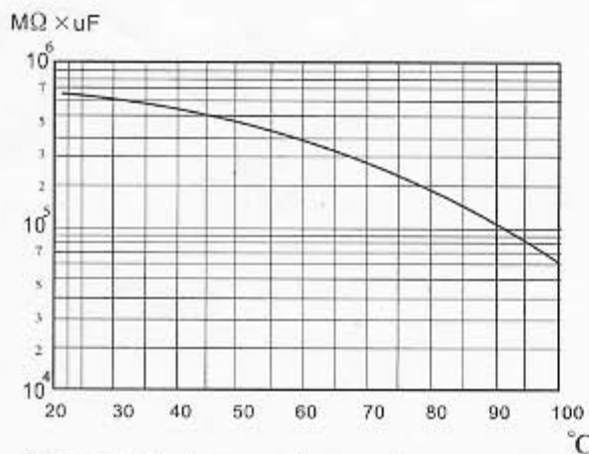
Capacitance change versus frequency $\Delta C/C$ %
容量变化率与频率的关系
(室内温度)



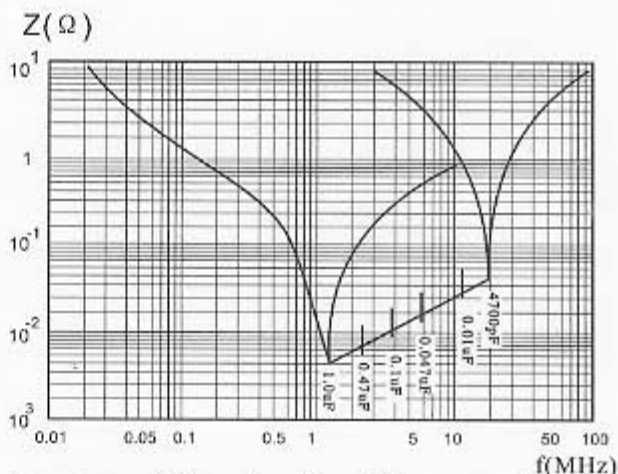
Dissipation factor versus temperature $\tan \delta$
measured at 1 kHz
损耗角正切值 $Tg \delta$ 与温度的关系(在1KHz时)



Dissipation factor versus frequency $\tan \delta$
损耗角正切值 $Tg \delta$ 与频率的关系
(室内温度)



Time constant versus temperature τ
绝缘电阻与温度的关系



Impedance (Z) as a function of frequency (f)
at $T = 20^\circ\text{C}$ (Average) 阻抗与频率的关系
Measurement with lead length 6mm

ZEICHENGENEHMIGUNG MARKS APPROVAL

Ultra Tech Xiphi
Enterprise Co. Ltd.
24F., No.27-10, Sec.2
Zhongzheng E. Rd.
25170 TAMSUI DIST., NEW TAIPEI CITY
TAIWAN

ist berechtigt, für ihr Produkt /
is authorized to use for their product

**Festkondensator zur Unterdrückung elektromagnetischer Störungen,
geeignet für Netzbetrieb - RC-Glied**
***Fixed capacitor for electromagnetic interference suppression and connection
to the supply mains - RC-unit***

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.



Geprüft und zertifiziert nach /
Tested and certified according to

DIN EN 60384-14 (VDE 0565-1-1):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



Aktenzeichen: 2191800-4670-0004 / 243040

File ref.:

Ausweis-Nr. 40047995

Blatt 1

Certificate No.

Page

Weitere Bedingungen siehe Rückseite und Folgeblätter /
further conditions see overleaf and following pages

Offenbach, 2018-04-04

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierungsstelle / Certification

M. Tasotti

VDE Zertifikate sind nur gültig bei Veröffentlichung unter:
VDE certificates are valid only when published on:

<http://www.vde.com/zertifikat>
<http://www.vde.com/certificate>



PRODUCT CERTIFICATE

No.: CQC06001016485

NAME AND ADDRESS OF THE APPLICANT

Ultra Tech Xiphi Enterprise Co., Ltd
24F, No.27-10, Sec. 2, ZhongZheng E. Rd, Tamsui Dist., New Taipei City, Taiwan

NAME AND ADDRESS OF THE MANUFACTURER

Ultra Tech Xiphi Enterprise Co., Ltd
24F, No.27-10, Sec. 2, ZhongZheng E. Rd, Tamsui Dist., New Taipei City, Taiwan

NAME AND ADDRESS OF THE FACTORY

Dong Guan Ultra New Tech Electronics Co., Ltd (V000472)
Jiang bian Village, QISHI TOWN, DONGGUAN CITY, GUANGDONG CHINA

NAME, MODEL AND SPECIFICATION

RC discreteness
HCR/HQXR X2 300VAC 0.01 μ F~0.1 μ F K 10 Ω ~470 Ω 40/100/21C

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB/T6346.14-2015

CERTIFICATION MODEL

Type Testing of Product + Initial Factory Inspection + Follow up Factory Inspection

This is to certify that the above mentioned products have met the requirements of certification rules CQC11-471115-2016.

Date of issue: Apr.20,2017

Validity of this certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

Date of original certification: Jun.09,2006

Accredited by China National Accreditation Service for Conformity Assessment CNAS C001-P

President:


Wang Kejiao



CHINA QUALITY CERTIFICATION CENTRE

Section 9, No.188, Nansihuan Xilu, Beijing 100070 P.R.China
<http://www.cqc.com.cn>

C 0097061

CERTIFICATE OF COMPLIANCE

Certificate Number 20170613-E183780
Report Reference E183780-20170613
Issue Date 2017-JUNE-13

Issued to: ULTRA TECH XIPHI ENTERPRISE CO LTD
24th Fl 27-10 Sec 2 Zhongzheng E Rd
Tamsui District, New Taipei, 25170 TAIWAN

**This is to certify that
representative samples of**

**COMPONENT - FIXED CAPACITORS FOR USE IN
ELECTRONIC EQUIPMENT**


Class X2 Capacitors. Wound Film Type, RC unit, Model
HCR or HQXR series with Capacitance from 0.001 ~ 1
micro-F with tolerance suffix code J, K or M.

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: See next page for Standards for Safety.

Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's
Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog
number, model number or other product designation as specified under "Marking" for the particular
Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products
that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark:
 may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is
required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual
recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance
capabilities and are intended for use as components of complete equipment submitted for investigation rather
than for direct separate installation in the field. The final acceptance of the component is dependent upon its
installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



CERTIFICATE OF COMPLIANCE

Certificate Number 20170613-E183780
Report Reference E183780-20170613
Issue Date 2017-JUNE-13

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Standard(s) for Safety:

UL 60384-14, Fixed Capacitors for Use in Electronic Equipment – Part 14: Sectional Specification:
Fixed Capacitors for Electromagnetic Interference Suppression and Connection to the Supply Mains
CSA E60384-1:14, Fixed Capacitors for Use in Electronic Equipment - Part 1: Generic Specification
CSA E60384-14, Fixed Capacitors for Use in Electronic Equipment – Part 14: Sectional Specification:
Fixed Capacitors for Electromagnetic Interference Suppression and Connection to the Supply Mains



Bruce Mahrenholz, Director North American Certification Program

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