

天泰电器元件有限公司

(抑制电源电磁干扰用固定电容器)

**MEX-X2**

**安规资料 (1-12 页)**

**2020-07-01**

## ZEICHENGENEHMIGUNG MARKS APPROVAL

Tenta Electric Industrial Co. Ltd.  
61 Lane 86 Tzu Chiang 2nd St.  
Taichung Harbor Kwan Line Ind.Dis  
WU CHI TAICHUNG  
TAIWAN

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

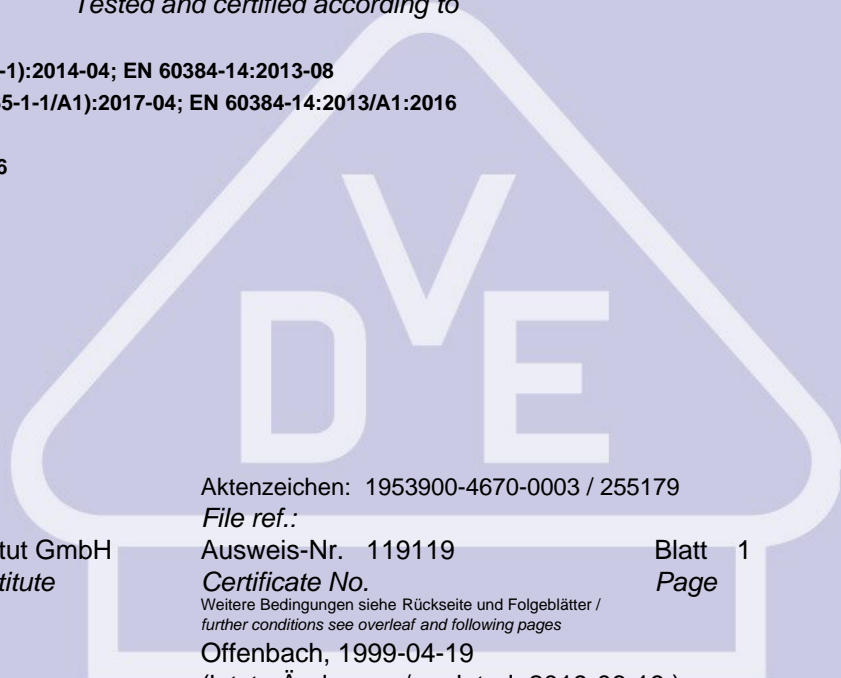
**Festkondensator zur Unterdrückung elektromagnetischer  
Störungen, geeignet für Netzbetrieb**  
***Fixed capacitor for electromagnetic interference  
suppression and connection to the supply mains***

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: 1953900-4670-0003 / 255179

File ref.:

Ausweis-Nr. 119119

Blatt 1

Certificate No.

Page

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

Offenbach, 1999-04-19

(letzte Änderung / updated 2019-06-19)

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

R. Nickel

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>

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*

Tenta Electric Industrial Co. Ltd., 61 Lane 86 Tzu Chiang 2nd St., Taichung Harbor Kwan Line Ind.Dis, WU CHI  
TAICHUNG, TAIWAN

Aktenzeichen / *File ref.*

1953900-4670-0003 / 255179 / TL3 / KIL

letzte Änderung / *updated*

2019-06-19

Datum / *Date*

1999-04-19

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 119119.

*This supplement is only valid in conjunction with page 1 of the Certificate No. 119119.*

## **Festkondensator zur Unterdrückung elektromagnetischer Störungen, geeignet für Netzbetrieb**

***Fixed capacitor for electromagnetic interference  
suppression and connection to the supply mains***

Typ(en) / *Type(s)*

### **MEX**

Weitere Einzelheit(en)

*Further details*

Anlage Nr. 200, Nr. 600 und Nr. 700 vom 2019-06-19

*Appendix no. 200, no. 600 and no. 700 dated 2019-06-19*

VDE Prüf- und Zertifizierungsinstitut GmbH

*VDE Testing and Certification Institute*

Fachgebiet TL3

*Section TL3*

# VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Beiblatt /  
Certificate No. Supplement  
119119

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*

Tenta Electric Industrial Co. Ltd., 61 Lane 86 Tzu Chiang 2nd St., Taichung Harbor Kwan Line Ind.Dis, WU CHI  
TAICHUNG, TAIWAN

Aktenzeichen / *File ref.*

1953900-4670-0003 / 255179 / TL3 / KIL

letzte Änderung / *updated*

2019-06-19

Datum / *Date*

1999-04-19

Dieses Beiblatt ist Bestandteil des Zeichengenehmigungsausweises Nr. 119119.

*This supplement is part of the Certificate No. 119119.*

## **Festkondensator zur Unterdrückung elektromagnetischer Störungen, geeignet für Netzbetrieb**

***Fixed capacitor for electromagnetic interference  
suppression and connection to the supply mains***

**Fertigungsstätte(n)**

***Place(s) of manufacture***

Referenz/*Reference*

**30023149**

SHENZHEN TENTA ELECTRICAL

APPLIANCE LTD.

No.A5 FuQiao 4th Ind. Area,Qiaotou Com.

Fuyong Street, BaoAn District

518103 SHENZHEN

Guangdong

CHINA

VDE Prüf- und Zertifizierungsinstitut GmbH

*VDE Testing and Certification Institute*

Fachgebiet TL3

*Section TL3*

# VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Infoblatt /  
Certificate No. Info sheet  
119119

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder

Tenta Electric Industrial Co. Ltd., 61 Lane 86 Tzu Chiang 2nd St., Taichung Harbor Kwan Line Ind.Dis, WU CHI  
TAICHUNG, TAIWAN

Aktenzeichen / File ref.

1953900-4670-0003 / 255179 / TL3 / KIL

letzte Änderung / updated

2019-06-19

Datum / Date

1999-04-19

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 119119.

*This supplement is only valid in conjunction with page 1 of the Certificate No. 119119.*

## **Genehmigung zum Benutzen des auf Seite 1 abgebildeten markenrechtlich geschützten Zeichens des VDE:**

Grundlage für die Benutzung sind die Allgemeinen Geschäftsbedingungen (AGB) der VDE Prüf- und Zertifizierungsinstitut GmbH ([www.vde.com\AGB-Institut](http://www.vde.com\AGB-Institut)). Das Recht zur Benutzung erstreckt sich nur auf die bezeichnete Firma mit den genannten Fertigungsstätten und die oben aufgeführten Produkte mit den zugeordneten Bezeichnungen. Die Fertigungsstätte muss so eingerichtet sein, dass eine gleichmäßige Herstellung der geprüften und zertifizierten Ausführung gewährleistet ist.

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Der Gültigkeitszeitraum einer VDE-GS-Zeichengenehmigung kann auf Antrag verlängert werden. Bei gesetzlichen und / oder normativen Änderungen kann die VDE-GS-Zeichengenehmigung ihre Gültigkeit zu einem früheren als dem angegebenen Datum verlieren.

Produkte, die das Biozid Dimethylfumarat (DMF) enthalten, dürfen gemäß der Kommissionsentscheidung 2009/251/EG nicht mehr in den Verkehr gebracht oder auf dem Markt bereitgestellt werden.

Der VDE-Zeichengenehmigungsausweis wird ausschließlich auf der ersten Seite unterzeichnet.

### **Approval to use the legally protected Mark of the VDE as shown on the first page:**

*Basis for the use are the general terms and conditions of the VDE Testing and Certification Institute ([www.vde.com\terms-institute](http://www.vde.com\terms-institute)). The right to use the mark is granted only to the mentioned company with the named places of manufacture and the listed products with the related type references. The place of manufacture shall be equipped in a way that a constant manufacturing of the certified construction is assured.*

*The approval is valid as long as the VDE specifications are in force, on which the certification is based on, unless it is withdrawn according to the VDE Testing and Certification Procedure (PM102E).*

*The validity period of a VDE-GS-Mark Approval may be prolonged on request. In case of changes in legal and / or normative requirements, the validity period of a VDE-GS-Mark Approval may be shortened.*

*Products containing the biocide dimethylfumarate (DMF) may not be marketed or made available on the EC market according to the Commission Decision 2009/251/EC.*

*The approval is solely signed on the first page.*

# CERTIFICATE ENEC16/FI/19/10018



Our Ref. HEL-CERT190200086-02

<b>Name and address of the licensee</b>	Tenta Electric Industrial Co., Ltd. 61, Lane 86, Tzu Chiang 2nd St., Taichung Harbour, Kwan Line Ind. Dist., WU-CHI 435, Taichung, Taiwan
<b>Product</b>	Fixed capacitor for electromagnetic interference suppression and connection to the supply mains
<b>Trade mark (if any)</b>	TENTA
<b>Type</b>	MEX
<b>Rating and principal characteristics</b>	275VAC; X2; 0.001 $\mu$ F-2.2 $\mu$ F, 40/100/21/B Tolerance J ( $\pm$ 5%), K ( $\pm$ 10%), M ( $\pm$ 20%)
<b>Is complying with the following European Standards</b>	EN 60384-14:2013 + AMD1:2016

**It is authorized to use the ENEC Mark in conjunction with the suffix 16, as shown above.**

**Validity** This certificate is valid until 2024-02-11 provided that the Conditions for ENEC certification are met. This certificate includes the right to use the ENEC 16 mark under the condition that product changes (if any) will be approved at SGS Fimko before the product is brought onto market.

**This certificate has been issued under the presumption and conditional on the fact that the licensee holds all necessary legal rights with regard to the product presented for testing and certification.**

**Date of issue** 2019-02-11

**SGS Fimko Ltd**

**Signature**

Matti Huttunen

Certification Engineer

**This certificate has 2 pages**



This certificate is issued by the company under its General Conditions for Certification Services accessible at <http://www.sgs.fi/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitations of liability defined therein and in the Test Report here above mentioned which findings are reflected in this certificate. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

**Page No.: 2 of Certificate No.: ENEC16/FI/19/10018**

**Name and address of the Manufacturer**

Shenzhen Tenta Electrical Appliance Ltd.  
No.A5, Fu Qiao 4th Industrial Area, Qiaotou Community,  
Fuyong Street, BAO An District, Shenzhen, 518103, Guangdong,  
China

**Manufacturing site(s)**

Shenzhen Tenta Electrical Appliance Ltd.  
No. A5,Fu Qiao 4th Industrial Area, Qiaotou Community,  
Fuyong Street, BAO An District, Shenzhen, 518103, Guangdong,  
China

**Additional information**



**Safety tests**

The values of the rated capacitance of the series are:  
0.001, 0.0012, 0.0015, 0.0018, 0.0022, 0.0027, 0.0033, 0.0039,  
0.0047, 0.0056, 0.0068, 0.0082, 0.01, 0.012, 0.015, 0.018, 0.022,  
0.027, 0.033, 0.039, 0.047, 0.056, 0.068, 0.082, 0.1, 0.12, 0.15,  
0.18, 0.22, 0.27, 0.33, 0.39, 0.47, 0.56, 0.68, 0.82, 1.0, 1.2, 1.5,  
1.8, 2.2  $\mu$ F.

This certificate replaces previous certificate ENEC/FI 2014032 A1 dated 20 August 2014. The standard has been updated.

**Following limitations apply**

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**As shown in the Test Report(s) No(s): 273794-1**

*MOE*

# FOWX2.E222911 - Fixed Capacitors for Use in Electronic Equipment - Component

## Fixed Capacitors for Use in Electronic Equipment - Component

See General Information for Fixed Capacitors for Use in Electronic Equipment - Component

### TENTA ELECTRIC INDUSTRIAL CO LTD

61 LANE 86 TZU CHIANG 2 ST  
TAICHUNG HARBOR KWAN LINE IND DISTRICT  
WU CHI, TAIWAN

E222911

### Fixed Capacitors

Type Dsg	Capacitor Class	Voltage Rating (V)	Capacitance (μF) (Tolerance)\$	Resistance for RC Devices (ohms)	Lower Temp (°C)	Upper Temp (°C)
MEX, MEY or MEX/Y	X2	250/275 ac	0.001μF - 4.7μF, J (+/-5%), K (+/-10%), or M (+/-20%)	—	-40	+100
MEX	X2	310 ac	0.01μF ~ 2.2μF, K (+/-10%), or M (+/-20%)	—	-55	+110
MEX	X1	250/300 ac	0.001μF ~ 4.7μF, J (+/-5%), K (+/-10%), or M (+/-20%)	—	-40	+100
MEY	Y2	275/310 ac	0.001μF ~ 0.1μF, J (+/-5%), K (+/-10%), or M (+/-20%)	—	-40	+100

Note \$: the model code may be followed by J for +/-5%, K for +/-10% or M for +/-20%.

Marking: Company name or trademark  ,  or **TENTA** and type designation.

Last Updated on 2016-08-29

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# FOWX8.E222911 - Fixed Capacitors for Use in Electronic Equipment Certified for Canada - Component

## Fixed Capacitors for Use in Electronic Equipment Certified for Canada - Component

See General Information for Fixed Capacitors for Use in Electronic Equipment Certified for Canada - Component

**TENTA ELECTRIC INDUSTRIAL CO LTD**  
61 LANE 86 TZU CHIANG 2 ST  
TAICHUNG HARBOR KWAN LINE IND DISTRICT  
WU CHI, TAIWAN

E222911

### Fixed Capacitors

Type Dsg	Capacitor Class	Voltage Rating (V)	Capacitance (μF) (Tolerance)\$	Resistance for RC Devices (ohms)	Lower Temp (°C)	Upper Temp (°C)
MEX, MEY or MEX/Y	X2	250/275 ac	0.001μF - 4.7μF, J (+/-5%), K (+/-10%), or M (+/-20%)	—	-40	+100
MEX	X2	310 ac	0.01μF ~ 2.2μF, K (+/-10%), or M (+/-20%)	—	-55	+110
MEX	X1	250/300 ac	0.001μF ~ 4.7μF, J (+/-5%), K (+/-10%), or M (+/-20%)	—	-40	+100
MEY	Y2	275/310 ac	0.001μF ~ 0.1μF, J (+/-5%), K (+/-10%), or M (+/-20%)	—	-40	+100

Note \$: the model code may be followed by J for +/-5%, K for +/-10% or M for +/-20%.

Marking: Company name or trademark  ,  or **TENTA** , type designation and Recognized Component Mark for Canada .

Last Updated on 2016-08-29

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접수번호 : 14-047735-01  
(Receipt No.)



# 전기용품안전인증서

## Electrical Appliances Safety Certificate

안전인증번호 : SU03019-5001B  
(Certificate No.)

제조사명 : Shenzhen Tenta Electrical Appliance Ltd.  
(Manufacturer)

대표자명 : Zhao Zhong Mei  
(President)

제조공장의 주소 : NO.A5,Fu Qiao 4th Industrial area,Qiaotou community,Fuyong  
(Factory Address) street,BAO AN district,shen zhen

제품명 : X캐패시터  
(Product) (X-Capacitor)

기본모델명 : MEX(0.1to 0.33uF)  
(Basic Model)

정격 : 275VAC 50/60Hz 0.1μF,0.12μF,0.15μF, 0.18μF, 0.22μF, 0.27μF 40/  
(Rating) 100/21/C, X2

파생모델명 : Not Applicable  
(Series Model)

적용기준 : K60384-14(2011-12)  
(Standard)

「전기용품안전 관리법 시행규칙」 제6조제2항에 따라 위의 전기용품에 대하여 안전인증  
서를 발급합니다.

We Issue Electrical Appliances Safety Certification as above product by Article 6 Sectio  
n 2 of the Electrical Appliances Safety Control Law Enforcement Regulation.

2015년 04월 27일  
Year month day



한국산업기술시험원장  
KOREA TESTING LABORATORY



\* 이 인증서는 「전기용품안전 관리법」에 따른 전기용품 안전성 확인에 한정된 것이며, 그 밖의 다른  
법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

- 첨부 :  
(Annex)
1. 안전관리부품 및 재질목록 (List of Critical Components)
  2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model)
  3. 전기용품안전인증의 변경 현황 (Revisions Status)

접수번호 : 14-047735-02  
(Receipt No.)



# 전기용품 안전인증서

## Electrical Appliances Safety Certificate

안전인증번호 : SU03019-5002B  
(Certificate No.)

제조사명 : Shenzhen Tenta Electrical Appliance Ltd.  
(Manufacturer)

대표자명 : Zhao Zhong Mei  
(President)

제조공장의 주소 : NO.A5,Fu Qiao 4th Industrial area,Qiaotou community,Fuyong street,BAO AN district,shen zhen  
(Factory Address)

제품명 : X캐패시터  
(Product) (X-Capacitor)

기본모델명 : MEX(0.39to 1uF)  
(Basic Model)

정격 : 275VAC 50/60Hz 0.39 $\mu$ F,0.47 $\mu$ F,0.56 $\mu$ F,0.6 $\mu$ F,0.68 $\mu$ F, 0.82 $\mu$ F,  
(Rating) 1.0 $\mu$ F, 40/100/21/C, X2

파생모델명 : Not Applicable  
(Series Model)

적용기준 : K60384-14(2011-12)  
(Standard)

「전기용품안전 관리법 시행규칙」 제6조제2항에 따라 위의 전기용품에 대하여 안전인증서를 발급합니다.

We Issue Electrical Appliances Safety Certification as above product by Article 6 Section 2 of the Electrical Appliances Safety Control Law Enforcement Regulation.

2015년 04월 27일  
Year month day



한국산업기술시험원장  
KOREA TESTING LABORATORY



\* 이 인증서는 「전기용품안전 관리법」에 따른 전기용품 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

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접수번호 : 14-047735-03  
(Receipt No.)



# 전기용품안전인증서

## Electrical Appliances Safety Certificate

안전인증번호 : SU03019-8001B  
(Certificate No.)

제조업자명 : Shenzhen Tenta Electrical Appliance Ltd.  
(Manufacturer)

대표자명 : Zhao Zhong Mei  
(President)

제조공장의 주소 : NO.A5,Fu Qiao 4th Industrial area,Qiaotou community,Fuyong street,BAO AN district,shen zhen  
(Factory Address)

제품명 : X캐패시터  
(Product) (X-Capacitor)

기본모델명 : MEX(1.2 $\mu$ F-2.2 $\mu$ F)  
(Basic Model)

정격 : 275VAC 1.2uF-2.2uF  
(Rating)

파생모델명 : Not Applicable  
(Series Model)

적용기준 : K60384-14(2011-12)  
(Standard)

「전기용품안전 관리법 시행규칙」 제6조제2항에 따라 위의 전기용품에 대하여 안전인증서를 발급합니다.

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2015년 04월 27일  
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한국산업기술시험원장  
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\* 이 인증서는 「전기용품안전 관리법」에 따른 전기용품 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

- 첨부 : (Annex)
1. 안전관리부품 및 재질목록 (List of Critical Components)
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# 产品认证证书

证书编号: CQC03001003039

申请人名称及地址

深圳天泰电器元件有限公司  
深圳市宝安区福海街道新和社区富桥三区二期厂房 A4 号二、三层

制造商名称及地址

深圳天泰电器元件有限公司  
深圳市宝安区福海街道新和社区富桥三区二期厂房 A4 号二、三层

生产企业名称及地址

深圳天泰电器元件有限公司 (V001302)  
深圳市宝安区福海街道新和社区富桥三区二期厂房 A4 号二、三层

产品名称和系列、规格、型号

抑制电源电磁干扰用固定电容器  
MEX 系列 X2 类 275VAC 0.001 $\mu$ F~4.7 $\mu$ F

产品标准和技术要求

GB/T 6346.14-2015

认证模式

产品型式试验+初次工厂检查+获证后监督

上述产品符合 CQC11-471115-2016 认证规则的要求, 特发此证。

发证日期: 2020 年 06 月 21 日

本证书的有效性依据发证机构的定期监督获得保持。

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主任: \_\_\_\_\_

陆杨



## 中国质量认证中心

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C 0297013



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# PRODUCT CERTIFICATE

CERTIFICATE NO.: CQC03001003039

## NAME AND ADDRESS OF THE APPLICANT

Shenzhen Tenta Electrical Appliance Co.,Ltd.  
F2 and F3, A4, Phase II Plant, Fuqiao District 3, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen  
City

## NAME AND ADDRESS OF THE MANUFACTURER

Shenzhen Tenta Electrical Appliance Co.,Ltd.  
F2 and F3, A4, Phase II Plant, Fuqiao District 3, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen  
City

## NAME AND ADDRESS OF THE FACTORY

Shenzhen Tenta Electrical Appliance Co.,Ltd. (V001302)  
F2 and F3, A4, Phase II Plant, Fuqiao District 3, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen  
City

## PRODUCT NAME, MODEL AND SPECIFICATION

FIXED CAPACITORS FOR ELECTROMAGNETIC INTERFERENCE SUPPRESSION AND  
CONNECTION TO THE SUPPLY INAINS  
MEX 系列 X2 类 275VAC 0.001 $\mu$ F~4.7 $\mu$ F

## THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB/T 6346.14-2015

## TYPE OF CERTIFICATION SCHEMES

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

This is to certify that the above mentioned product(s) complies with the requirements of certification  
rules of CQC11-471115-2016 .

Valid from: Jun.21,2020

The validity of the certificate is subject to positive result of the regular follow up inspection by issuing  
certification body.

Date of original issued: Jan.13,2003

President: \_\_\_\_\_

Lu Mei



## CHINA QUALITY CERTIFICATION CENTRE

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

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