パナソニック株式会社
インダストリアルソリューションズ社
デバイスソリューション事業部
Device Solutions Business Division
Industrial Solutions Company
Panasonic Corporation

海 外 規 格 認 定 書

APPROVAL SHEET TOR SAFETY STANDARD

電源雑音防止用コンデンサ　　Type：ECQUA

Radio Interference Suppression Capacitor

認証機関 Certification organization	国 Country	認定規格 Approval	クラス Class	静電容量範囲 Cap. Range (uF)	認定番号 Approval No.	資料 (page)
VDE	欧州 Europe	EN 60384-14 IEC 60384-14	X2	0.1 ー 4.7	40031110	2～5
UL	アメリカ U.S.A	UL 60384-14			E 62674	6～7
	カナダ Canada	CAN/CSA-E60384-14				

[認定工場]
Approval factory

中国 China	パナソニック エレクトロニックデバイス江門有限公司 Panasonic Electronic Devices (Jiangmen) Co., Ltd.

VDE Prüf- und Zertifizierungsinstitut

ZEICHENGENEHMIGUNG
MARKS APPROVAL

Panasonic Corporation
Automotive & Ind. Systems Company
Toyama Matsue Plant
369 Nogi-Fukutomi
MATSUE-SHI 690-8527
JAPAN

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: 5011610-4670-0008 / 240414
File ref.:

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

Ausweis-Nr. 40031110 Blatt 1
Certificate No. *Page*

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

Offenbach, 2010-10-07
(letzte Änderung / updated 2017-09-05)

H. König

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VDE Prüf- und Zertifizierungsinstitut
Zeichengenehmigung

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*
Panasonic Corporation Automotive & Ind. Systems Company, Toyama Matsue Plant, 369 Nogi-Fukutomi, MATSUE-SHI 690-8527, JAPAN

Aktenzeichen / *File ref.*	letzte Änderung / *updated*	Datum / *Date*
5011610-4670-0008 / 240414 / CC2 / KIL	2017-09-05	2010-10-07

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40031110.
This supplement is only valid in conjunction with page 1 of the Certificate No. 40031110.

Festkondensator zur Unterdrückung elektromagnetischer Störungen, geeignet für Netzbetrieb

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

Typ(en) / *Type(s)*

ECQUA

Bemessungsspannung *Rated voltage*	AC 275 V
Kondensatorklasse und -unterklasse *Capacitor class and subclass*	X2
Klimakategorie *Climatic category*	40/110/21
Kategorie der passiven Entflammbarkeit *Passive flammability category*	B
Bemessungskapazität *Rated capacitance*	0,1µF;0,12µF;0,15µF;0,18µF;0,22µF;0,27µF;0,33µF; 0,39µF;0,47µF;0,56µF;0,68µF;0,82µF;1µF;1,5µF; 2,2µF;3,3µF;4,7µF
Grenzabweichung der Bemessungskapazität *Tolerance of rated capacitance*	±10%(K) oder/or ±20%(M)
Warenzeicheninhaber *Trademark holder*	Panasonic Electronic Devices Japan Co., Ltd.
Weitere Einzelheit(en) *Further detail(s)*	Anlage Nr. 600 vom 2017-09-05 *Appendix no. 600 dated 2017-09-05*

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Fachgebiet CC2
Section CC2

Merianstrasse 28, D-63069 Offenbach
Phone +49 (0) 69 83 06-0
Telefax +49 (0) 69 83 06-555

VDE Prüf- und Zertifizierungsinstitut
Zeichengenehmigung

Ausweis-Nr. / *Certificate No.* 40031110

Beiblatt / *Supplement*

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*
Panasonic Corporation Automotive & Ind. Systems Company, Toyama Matsue Plant, 369 Nogi-Fukutomi, MATSUE-SHI 690-8527, JAPAN

Aktenzeichen / *File ref.*
5011610-4670-0008 / 240414 / CC2 / KIL

letzte Änderung / *updated*
2017-09-05

Datum / *Date*
2010-10-07

Dieses Beiblatt ist Bestandteil des Zeichengenehmigungsausweises Nr. 40031110.
This supplement is part of the Certificate No. 40031110.

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*	
30019128	Panasonic Electronic Devices (Jiangmen) Co., Ltd. No.18 Huicheng Road Xinhui 529100 JIANGMEN CITY Guangdong CHINA

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Fachgebiet CC2
Section CC2

CERTIFICATE OF COMPLIANCE

Certificate Number	20171106-E62674
Report Reference	E62674- 20101229
Issue Date	2017-NOVEMBER-06
Issued to:	PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA Product Safety & Compliance Dept Two Riverfront Plaza 9th Fl, Newark NJ 07102-5490
This is to certify that representative samples of	COMPONENT - Fixed Capacitors for Electromagnetic Interference Suppression and Connection to the Supply Mains See next page for models.
	Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	See next page for standards.
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

CERTIFICATE OF COMPLIANCE

Certificate Number	20171106-E62674
Report Reference	E62674- 20101229
Issue Date	2017-NOVEMBER-06

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

Model:

Class X2 Capacitors, Model ECQUA series with Capacitance from 0.1 ~ 4.7 uF with tolerance K, M. Refer to CONSTRUCTION DETAILS for Model designation and rated capacitance.

Standard(s) for Safety:

UL 60384-14, Safety Requirements For 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 E60384-14:14, Fixed Capacitors for Use in Electronic Equipment – Part 14: Sectiona Specification: Fixed Capacitors for Electromagnetic Interference Suppression and Connection to the Supply Mains.

Bruce Mahrenholz, Director North American Certification Program

UL LLC