

CERTIFICATE OF COMPLIANCE

Certificate Number 20130724-E354331
Report Reference E354331-20130724
Issue Date 2013-JULY-24

Issued to: VISHAY CAPACITORS BELGIUM N V
KWADESTRAAT 151 A
BOX 12
8800 ROESELARE BELGIUM

This is to certify that representative samples of


Component - Across-The-Line Capacitors, Antenna-Coupling Components, Line-Bypass Components and Fixed Capacitors for Use in Electronic Equipment
Class X2 Wound Film Axial Type Capacitors, F1773 Series with capacitance from 10nF to 2200nF 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 Addendum Page

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

Only those products bearing the UL Recognized Component Mark should be considered as being covered by UL's Recognition 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 Recognized Component Mark on the product.



William R. Carney, Director, North American Certification Programs
UL LLC

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

Standard 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 including National Differences For 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, revision dated March 31, 2010

William R. Carney, Director, North American Certification Programs
UL LLC

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File E354331
Project 12CA67414

July 24, 2013

REPORT

on

FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT - COMPONENTS

Vishay Capacitors Belgium N V
Roeselare, Belgium

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DESCRIPTION

PRODUCT COVERED:

USR - Component - Class X2 Wound Film Axial Type Capacitors, F1773 Series with capacitance from 10nF to 2200nF with tolerance suffix code J, K or M. Refer to CONSTRUCTION DETAILS for Model designation and rated capacitance.

RATINGS:

Table with 8 columns: Series, Class, Voltage Rating (ac), Lower Category Temp. (°C), Upper Category Temp. (°C), Capacitance Tolerance (%), Climatic Category, Passive Flammability Category. Row 1: F1773, X2, 253, -40, 100, +/-20%#, 21, B or C+

- The suffix code for tolerance associated with capacitance may be J(±5%), K(±10%), or M(±20%).
+ - If Series F1773 that volume smaller than 1750 mm³ apply passive flammability category of C according test result.

ABBREVIATIONS:

USR - Recognized, indicates investigation to UL 60384-14, First Edition, with revisions up to and including March 31, 2010.



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and Report

ABBREVIATIONS:

USR - Recognized, indicates investigation to UL 60384-14. First Edition with revisions up to and including March 31, 2010.

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE USE):

Conditions of Acceptability

These components have been investigated and are intended for use in Electronic Equipment for Electromagnetic Interference Suppression and Connection to the Supply Mains where the acceptability of the combination is determined by UL LLC.

1. These components are intended to be installed within a suitable enclosure in the end use application.
2. Electrical spacings from uninsulated parts and the case shall comply with the requirements of the end-use product.
3. These components are intended for use in 50/60 Hz circuits up to a nominal 253 Vac.
4. These capacitors have been evaluated for 21days damp heating in an ambient of 40 ± 2 °C, 93 ± 3 % RH with acceptable results. Additional evaluation should be made if the unit is intended to be used in a different ambient.
5. Upon US National Differences for UL 60384-14 the category of passive flammability shall be category B except part smaller than 1750 mm³ the Passive Flammability Category C is permitted. Therefore, for products in this Report with case volume less than 1750 mm³ the Passive Flammability Test was evaluated at Category C and all other products the Passive Flammability Category is B. The category of passive flammability was acceptable by complying with the Flammability Test of Claus 4.71ADV, so the evaluation just for UL Mark only.