CERTIFICATE OF COMPLIANCE

Certificate Number	20140313-E354331
Report Reference	E354331-20120730
Issue Date	2014-MARCH-13
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, See Addendum for models Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	See addendum 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 Recognized Component Marks for the U.S. and Canada should be considered as being covered by UL's Recognition and Follow-Up Service and meeting the appropriate U.S. and Canadian requirements.

The UL Recognized Component Mark for the U.S. 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. The UL Recognized Component Mark for Canada consists of the UL Recognized Mark for Canada: and 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.

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

William R. Carney, Director, North American Certification Programs

UL LLC

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For technical questions, contact: rfi@vishay.com

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CERTIFICATE OF COMPLIANCE

Certificate Number	20140313-E354331
Report Reference	E354331-20120730
Issue Date	2014-MARCH-13

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

Component – Class X2 Wound Film Type Capacitors, F1772 and F1772S 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.

Standards for Saftey:

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 E60384-1:03, Fixed Capacitors for Use in Electronic Equipment - Part 1: Generic Specification

CSA E60384-14:09, Fixed Capacitors for Use in Electronic Equipment – Part 14: Sectional Specification: Fixed Capacitors for Electromagnetic Interference Suppression and Connection to the Supply Mains

William R. Carney

William R. Carney, Director, North American Certification Programs

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File E354331 Vol. 1 Sec. 8 Page 1 Issued: 2012-07-30
Vol. 2 Sec. 8 Revised: 2014-03-12
and Report

DESCRIPTION

PRODUCT COVERED:

USR, CNR - Component - Class X2 Wound Film Type Capacitors, F1772 **and F1772S** 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:

Series	Class	Voltage Rating (ac)	Lower Category Temp. (°C)	Upper Category Temp. (°C)	Capacitance Tolerance (%)	Climatic Category	Passive Flammability Category
F1772, F1772S	X2	310	-40	110	+/-20%#	56	B or C++

- The suffix code for tolerance associated with capacitance may be J(±5%), K(±10%), or M(±20%).
++ - If Series 336 1 that volume smaller than 1750 mm^3 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.

CNR - Recognized, indicates investigation to CSA E60384-1:03, Second Edition, February 2003 and CSA E60384-14:09, Second Edition, March 2009.

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File E354331 Vol. 1 Sec. 8 Page 1 Issued: 2012-07-30
Vol. 2 Sec. 8
and Report

DESCRIPTION

PRODUCT COVERED:

USR, CNR - Component - Class X2 Wound Film Type Capacitors, F1772 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:

Series	Class	Voltage Rating (ac)	Lower Category Temp. (°C)	Upper Category Temp. (°C)	Capacitance Tolerance (%)	Climatic Category	Passive Flammability Category
F1772	X2	310	-40	110	+/-20%#	56	B or C++

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