



CERTIFICATE OF COMPLIANCE

Certificate Number 20120523-E99264
Report Reference E99264-20120523
Issue Date 2012-MAY-23
Issued to: VISHAY ELECTRONIC GMBH
 GEHEIMRAT-ROSENTHAL-STR 100
 95100 SELB GERMANY

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 Capacitors. Models 20VL series with Capacitance from 9000 ~ 100000 pF with tolerance suffix code J, K and 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 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, Director, North American Certification Programs
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/contactus





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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
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, Director, North American Certification Programs
UL LLC

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Revised: 2012-05-23

INDEX

Products / Models	Section	Requirements Evaluated to (USR and/or CNR)
Class X1 and Y4 Capacitors, Ceramic Disc Type, Model 125L series with tolerance J($\pm 5\%$), K($\pm 10\%$) or M($\pm 20\%$).	1	USR and CNR
Class X1 and Y1 Capacitors, Ceramic Disc Type, Model 440L series with tolerance J($\pm 5\%$), K($\pm 10\%$) or M($\pm 20\%$).	2	USR and CNR
Class X1 and Y2 Capacitors, Ceramic Disc Type, Model 30LVS series with tolerance J($\pm 5\%$), K($\pm 10\%$) or M($\pm 20\%$).	3	USR and CNR
Class X1 and Y2 Capacitors, Ceramic Disc Type, Model 25Y series with tolerance J($\pm 5\%$), K($\pm 10\%$) or M($\pm 20\%$).	4	USR and CNR
Class X1 and Y2 Capacitors, Ceramic Disc Type, Model 30LV series with tolerance J($\pm 5\%$), K($\pm 10\%$) or M($\pm 20\%$).	5	USR and CNR
Class X2 Capacitors, Ceramic Disc Type, Model 20VL series with tolerance J($\pm 5\%$), K($\pm 10\%$) or M($\pm 20\%$).	6	USR and CNR



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SAMPLE SELECTION GUIDE:

Once a year, pick up the following samples, tag the samples and forward them to the Conformity Assessment Services, of the office that controls the file.

Table with 5 columns: Group, Model Designation, Report Date, Number of Samples, Rating. It lists seven different ceramic disc capacitor samples with their respective specifications and test dates.

Note to CAS: the minimum number of samples is 24 plus an additional 6 may be required if the plastic material of the case requires the Passive Flammability Test per 4.17. Groups should be based on capacitor type, capacitance and voltage.

STANDARDIZED APPENDIX PAGE (SAP)
Controlled Document: Direct Request for Revision to PDE for Category



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GENERAL:

The samples forwarded to the Conformity Assessment Services, as specified in SP. APP. B, shall be subjected to the following tests as outlined in App. C.

Model Designation / Subclass	Report Date	Index To Testing Tests To Be Conducted							
		1	2	3	4	5	6	7	8
1	2012-01-17								
	2012-01-18								
	2012-01-19								
	2012-01-20	X	X	-	X	X	X	X	X
	2012-01-21								
	2012-05-23								

STANDARDIZED APPENDIX PAGE (SAP)
Controlled Document: Direct Request for Revision to PDE for Category



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INDEX TO CASE FLAMMABILITY TESTS OUTLINED IN ITEM 8 OF APP.C

Group	Product Designation (Cat. No., Model No.)	TEST 4.17ADV.1 of UL 60384-14 or to IEC 60384-1 (IEC 60695-2-2, needle flame test. For parts smaller than 1750 mm ³ , passive flammability Category C is Permitted.
1	X1/Y4 Ceramic Disc Type, 125L rated 1000pF (Size:5.8 mm OD by 1.35 mm thick), Case:DK17-01 (E343402)	Conduct IEC 60695-2-2, needle flame test. Passive flammability Category is B.
1	X1/Y1 Ceramic Disc Type, 440L rate 10pF (Size:5.8 mm OD by 1.55 mm thick), Case:DK17-01 (E343402)	Conduct IEC 60695-2-2, needle flame test. Passive flammability Category is B.
1	X1/Y2 Ceramic Disc Type, 30LVS rated 1000pF (Size:5.8 mm OD by 1.75 mm thick), Case:DK17-01 (E343402)	Conduct IEC 60695-2-2, needle flame test. Passive flammability Category is B.
1	X1/Y2 Ceramic Disc Type, 25Y rate 1000pF (Size:5.8 mm OD by 1.2 mm thick), Case:DK17-01 (E343402)	Conduct IEC 60695-2-2, needle flame test. Passive flammability Category is B.
1	X1/Y2 Ceramic Disc Type, 30LV rated 10pF (Size:5.8 mm OD by 1.55 mm thick), Case:DK17-01 (E343402)	Conduct IEC 60695-2-2, needle flame test. Passive flammability Category is B.
1	X2 Ceramic Disc Type, 20VL rated 9000pF (Size:10.6 mm OD by 0.76 mm thick), Case:DK17-01 (E343402)	Conduct IEC 60695-2-2, needle flame test. Passive flammability Category is B.

Note to CAS- Provide the above information for each capacitor model based on the original case flammability test.

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