America

CERTIFICATE

No. U8V 021433 0601 Rev. 00

Holder of Certificate: **Vicor Corporation**
25 Frontage Road
Andover MA 01810
USA

Certification Mark:

Product: Audio/Video, Information and Communication technology equipment
DC-DC converter

This product was voluntarily tested to the relevant safety requirements referenced on this certificate. It can be marked with the certification mark above. The mark must not be altered in any way. This product certification system operated by TÜV SÜD America Inc. most closely resembles system 3 as defined in ISO/IEC 17067. Certification is based on the TÜV SÜD "Testing and Certification Regulations". TÜV SÜD America Inc. is an OSHA recognized NRTL and a Standards Council of Canada accredited Certification body.

Test report no.: 72151621-000

Date, 2020-05-01

(William J. Stinson)

TÜV SÜD America Inc. • 10 Centennial Drive • Peabody • MA 01960 • USA

America

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Model(s): DCM 3623 and DCM 2322 Railway Series

Brand Name: VICHIP or VICOR

Tested according to:
CAN/CSA C22.2 No. 62368-1:2014
UL 62368-1:2014
EN 62368-1:2014/A11:2017

Production Facility(ies): 067768

Parameters:

Rated Input Voltage:	100 V DC (43-154)
Rated Output Voltage:	48 V DC (+10/-40%)
Rated Output Power:	240 W

Special Considerations – The following items are considerations that were used when evaluating these products. The DCM2322 and DCM3623 Railway series of DC-DC converters are designed for building-in.

Conditions of Acceptability – When installed in the end use equipment, the following are among considerations to be made:

1. Maximum output power and case temperature. See Constructional Data Form (CDF) for thermal curves for maximum operating conditions for each package size and voltage rating
2. The Input is considered to be ES3. Operation over the entire input voltage range was evaluated
3. Models with a Vin range below ES3 levels were evaluated for ES3 insulation/isolation requirements
4. Output voltages less than or equal to 42.4V can be considered ES1. Output voltages greater than 42.4V may be considered ES2 due to hiccup mode during single fault conditions
5. The Output is separated from the Input by a Reinforced Safeguard
6. The DCMs must be mounted on minimum V-1 flame rated printed wiring board
7. The DCMs were evaluated with the following fuses.

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DCM 3623 / 2322 Railway Series Model Matrix: DCMaaaabcccwwxxyzz
Example: DCM3623TA5N53B4T00

DCM = Constant

Product Type	
DCM	DC-DC Converter Module

aaaa = 3623

Package Size (mm)	
2322	23 x 22
3623	36 x 23

b = T

Lead Designator	
T	Through-Hole

ccc = A5N

Input Voltage			
	Max	Range	Nominal
A5K	154V	60-154	110V
A5N	154V	43-154	100V
72S	72V	14-72	43V
50T	50V	9-50	30V

ww = 53

Output Voltage			
Output Vdc	Nominal	Output Vdc	Nominal
04	3.3V	26	24.0V
06	5.0V	31	28.0V
13	12.0V	40	36.0V
15	13.8V	53	48.0V
17	15.0V		
Nominal Trim range = +10% / -15%			

xx = B4

Output Power					
35	35W	60	60W	A2	120W
40	200W	80	80W	B4	240W
50	300W	A0	100W	C0	300W
120W max for 2322 package size 300W max for 3623 package size					

y = T

Product Grade	
C	-20 to 100°C
T	-40 to 100°C
M	-55 to 100°C

zz = 00

Options (non-safety related), Any alphanumeric combination, non-inclusive list of examples below	
00	Analog Communication
01	Digital Communication

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