



America

CERTIFICATE

No. U8V 021433 0614 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.: 72162049-000

Date, 2020-10-27

(William J. Stinson)



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Model(s): VICHIP DCM3623 Series
Model:
DCM3623T75H53C2T00
DCM28AP280M320A50

Brand Name: VICHIP

Tested according to: CAN/CSA C22.2 No. 62368-1:2019
UL 62368-1:2019
EN 62368-1:2014/A11:2017

Production Facility(ies): 067768

Parameters: Model: DCM3623T75H53C2T00
Rated Input Voltage: 48 V DC
Rated Output Voltage: 48 V DC
Rated Output Power: 320 W max

Special Considerations – The following items are considerations that were used when evaluating these products.

The VICHIP DCM3623 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. See de-rating curves for maximum Output Power vs. Input Voltage and Case Temperature
2. The output is separated from the input by Basic Insulation
3. The DCM3623 to be mounted on minimum V-1 rated PCB in end use
4. The DCM3623 series were evaluated using the fuses below:

Nominal Vin	Recommended Fuse (Max value)
24, 28 or 30	Littelfuse 456 (SMD) rated 30A or EATON ABC series rated 30A
42 or 48	Littelfuse 487 (5x20) rated 15A or EATON ABC series rated 15A



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VICHIP DCM3623 Model Matrix: DCMbbbcdddeffxyz

Example: DCM28AP280M320A50

DCM = Constant

DCM series DC-DC Converter Module	
DCM	Standard version
MDCM	Military version

bbb = 28A

Input Voltage: Rated Nominal (range)			
20A	20 Vdc (10-30)	30A	30 Vdc (9-50)
24A	24 Vdc (18-36)	48A	48 Vdc (36-75)
28A	28 Vdc (16-50)	70A	70 Vdc (64-75)

c = P

Package Type and Lead designator	
P	Panel Mold Through-hole
L / N	Panel Mold Lead-less

ddd = 280

Output Voltage Designator (can be any three digits 000 to 540, non-inclusive list of examples below)			
050	5.0V	480	48.0V
120	12.0V	528	52.8V
280	28.0V	540	54.0V

e = T

Product Grade	
T	-40 to 125C
M	-55 to 125C
C	0 to 85C

fff = 320

Output Power Designator (can be any three digits 000 to 320 non-inclusive list of examples below), 320W max	
180	180W
200	200W
320	320W

x = A

Revision (non-safety related)	
x	Any alphanumeric character

y = 5

Package Size	
5	3623

Z = 0

Functionality (non-safety related), any alphanumeric character non-inclusive list of examples	
0	No communication
1	Communication enabled
R	Reversible

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VICHIP DCM3623 Alternate Model Matrix: DCM3623bccwxyzz

Example: DCM3623T75H53C2T00

DCM = Constant	
Product Function	
DCM	DC-DC Converter Module

3623 = Constant	
Package Dimensions (mm)	
3623	36 x 23

b = T

Lead Designator	
T	Through-Hole
L / N	Leadless

ccc = 75H

Nominal Input Voltage (range)	
36G	24V (18-36)
50M	28V (16-50)
50T	30V (9-50)
75H	48V (36-75)
75X	42V (9-75)

ww = 53

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

xx = C2

Maximum Output Power			
80	80W	B0	200W
A2	120W	B4	240W
A6	160W	C2	320W
A8	180W		

y = T

Product Grade (Tmax internal, see attachment for external Tcase max)			
C	0 to 125°C	T	-40 to 125°C
M	-55 to 125°C		

ZZ - 00

Options (non-safety related)	
00	Any alphanumeric

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