

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT
(IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	Audio/Video, Information and Communication technology equipment High Voltage Panel Mold DCM DC to DC Converter	
Name and address of the applicant	Vicor Corporation 25 Frontage Road Andover MA 01810 USA	
Name and address of the manufacturer	Vicor Corporation 25 Frontage Road, Andover MA 01810, USA	
Name and address of the factory	Vicor Inc. 400 Federal Street, Andover MA 01810, USA	
Ratings and principal characteristics	(Model: DCM290P138T600A41)	
	Rated Input Voltage:	290 V DC
	Rated Output Voltage:	13.8 V DC
	Rated Output Power:	600 W max
Trade mark (if any)	VICHIP	
Customer's Testing Facility (CTF) Stage used	CTF STAGE 3	
Model/type Ref.	DCM290P138T600A41 Type: VICHIP DCM4623 Series	
Additional information (if necessary)	Certificate DE 3 – 502884 issued 2018-04-16 is replaced by this version due to technical changes	
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2018	
as shown in the Test Report Ref. No. which forms part of this certificate	72159835-000	

This CB Test Certificate is issued by the National Certification Body

CB 021433 0607 Rev. 00
Date, 2020-08-27

(William J. Stinson)

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DCM4623 Model Matrix: DCMbbbwddeffxyz

Example: DCM290P138T600A41

DCM = Constant

DCM Series Converter Module	
DCM	Standard version
MDCM	MIL-COTS version

bbb = 290

Nominal Input Voltage (Maximum Voltage Range)							
120	120V (90-150)	210	210V (140-310)	290	290V (160-420)	380	380V (340-420)
175	200V (90-260)	270	270V (160-420)	300	300V (180-420)		
255	210V (90-420)	275	275V (120-420)	360	360V (300-420)		

w = P

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

ddd = 138

Output Voltage Designator, Vout = Designator / 10, any 3 digit number from 000 to 540. Non-inclusive list of examples below.					
033	3.3V	138	13V	280	28V
050	5V	150	15V	420	42V
090	9V	220	22V	480	48V
120	12V	240	24V	528	52.8V

e = T

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

fff = 600

Output Power, any 3 digit number from 000 – 600. Non-inclusive list of examples below.							
100	100W	250	250W	400	400W	500	500W
150	150W	375	375W	450	450W	600	600W

x = A

Revision (non-safety related)	
x	Any alphanumeric character

y = 4

Package Size	
4	4623

z = 1

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

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Alternate DCM4623 Model Matrix: DCM4623cddewwxyz

Example: DCM4623TD2B53E0M00

DCM = Constant

Product Function	
DCM	DC-DC Converter Module

4623 = Constant

Package Size (mm)	
4623	46 x 23

c = T

Lead Designator			
T	Through-Hole	L / N	Leadless

dd = D2

Maximum Input Voltage = 1 st character + 2 nd character (see table below, not to exceed 420V)							
1 st character				2 nd character			
A	100V	0	0 V	4	40 V	8	80 V
B	200V	1	10 V	5	50 V	9	90 V
C	300V	2	20 V	6	60 V		
D	400V	3	30 V	7	70 V		

Examples: D2 = 420V (400V+20V), B1 = 210 (200V+10V), A2 = 120V (100V+20V)

e = G

Range Ratio (Vin high / Vin low, defines low line)							
A	1.10	G	1.95	N	3.45	U	6.12
B	1.21	H	2.14	P	3.80	V	6.73
C	1.33	J	2.36	Q	4.18	W	7.40
D	1.46	K	2.59	R	4.60	X	8.14
E	1.61	L	2.85	S	5.05	Y	8.95
F	1.77	M	3.14	T	5.60	Z	9.85

ww = 53

Maximum Output Voltage including trim (any 2 digits up to 60), non-inclusive list of examples			
04	4Vdc (3.3V nominal +10% trim)	26	26Vdc (24V nominal +10% trim)
06	6Vdc (5V nominal +10% trim)	31	31Vdc (28V nominal +10% trim)
13	13Vdc (12V nominal +10% trim)	53	53Vdc (48V nominal +10% trim)
17	17Vdc (15V nominal + 10 trim)		

xx = E0

Maximum Output Power = 1 st character + 2 nd character (see table below, not to exceed 600W)					
1 st character			2 nd character		
A	100 W	0	0 W	5	50 W
B	200 W	1	10 W	6	60 W
C	300 W	2	20 W	7	70 W
D	400 W	3	30 W	8	80 W
E	500 W	4	40 W	9	90 W
F	600 W				

Examples: F0 = 600W (600W+0W), D0 = 400W (400W+0W), B5 = 250W (200W+50W), A5 = 150W (100W+50W)

y = M

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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