

## VI ChiP DCM3623 and DCM2322 Flammability Review

Vicor dc-dc converters are evaluated to IEC/EN/UL 60950-1 and 62368-1. As part of this evaluation the flammability rating of the major components are reviewed.

UL 94, Standard for Safety, Tests for Flammability of Plastic Materials for Parts in Devices and Appliances

Component Flammability Ratings				
Part	Material	UL R/C CCN	UL 94 V rating	UL File #
Molding	Sumitomo	QMFZ2	V-0	E41429
Molding (Alt.)	Hitachi/Resonac	QMFZ2	V-0	E42956
PCB	FR4	ZPMV2	V-0	Various
Header	Dupont Zytel	QMFZ2	V-0	E41938
See IEC IECEE TUV CB Test Report Number 7215621-100				

In addition to the material review, the DCM3623 and DCM2322 ChiPs were tested to the applicable flame tests of the following standards:

IEC 60695-11-10, Fire hazard testing – Part 11-10: Test flames – 50W Horizontal and Vertical flame test methods

IEC 60695-11-5, Fire hazard testing – Part 11-5: Test flames – Needle-flame test method

EN 45545-2, Fire protection on railway vehicles, Part 2: Requirements for behavior of materials and components (Requirement R26)

	<b>Report Number#</b>	Standard	
DCM2322	518702 (Issue 1)	IEC 60695-11-10, Vertical Burn Test	
DCM2322	520359 (Issue 1)	EN 60695-11-5, Needle Flame Test	
DCM2322	520361 (Issue 3)	EN 45545-2, R26 Vertical Burn Test	
DCM3623	520358 (Issue 1)	IEC 60695-11-10, Vertical Burn Test	
DCM3623	520360 (Issue 1)	EN 60695-11-5, Needle Flame Test	
DCM3623	520362 (Issue 2)	EN 45545-2, R26 Vertical Burn Test	

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