

Engineering Report

Terminal block (PCB mount)

1. INTRODUCTION

1.1 Purpose

Testing was performed on terminal block (PCB mount) to determine its effects of thermal stresses related to the requirements of specification IEC 60335-2013, IEC 60695-2-11-2014.

1.2 Scope

This report covers the effects of thermal stresses performance of terminal block (PCB mount). Testing was performed at the Shanghai Electrical Components Test Laboratory between Nov. 30th, 2015 and Dec. 1st, 2015. The associated test number is TP-15-02671.

1.3 Conclusion

Based on the test results, all tests meet the requirement according to specification IEC 60335-2013, IEC 60695-2-11-2014.

1.4 Test Specimens

Specimens with the following part numbers were used for test:

Table 1

Part No.	Description	Qty. (pcs)	Comments
282844-2	TERMINAL BLOCK, PCB MOUNT, SIDE WIRE	0	\
	ENTRY, STACKING, WITH INTERLOCK, 7.5mm	9	

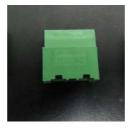


Fig.1 Typical Specimen

1.5 Test Sequence

The specimens listed in Table 1 were subjected to the test sequences listed in Table 2.

Table 2

	Test Group(a)
Test Item	1
	Test
	Sequence (a)
Glow wire test	1

Note: a). Numbers indicate sequence in which tests are performed.



1.6 Environmental Conditions

Unless otherwise stated, the following environmental conditions prevailed during testing:

Temperature: 15° to 35° Relative Humidity: 25° to 75°

2. TEST PROCEDUES

2.1 Glow wire test

Assembly sample on fixture, then start test at the specific temperature (750 $^{\circ}$ C and 850 $^{\circ}$ C) for 30 seconds. Check the parameters in Spec. required.

Requirement: No flame or Te-Ti≤2s (750 °C);

No flame or Te≤Ta+30s (850 °C)

Test Method: IEC 60335-2013, IEC 60695-2-11-2014.

3. SUMMARY OF TESTING

Group Test Item			Test Result					
			Ti (sec)	Te (sec)	Flame height (mm)	Drops	Requirement	Conclusion
1 Glow wire test	750 °C	Α	0	0	0	No	No flame or Te-Ti≤2s	Meet Spec
		Α	0	0	0	No		Meet Spec
		Α	0	0	0	No		Meet Spec
		В	0	0	0	No		Meet Spec
		В	0	0	0	No		Meet Spec
		В	0	0	0	No		Meet Spec
	850 ℃	С	0.4	5.0	20	No	No flame or Te≤Ta+30s	Meet Spec
		С	1.3	31.3	40	No		Meet Spec
			С	1.0	14.0	30	No	

*Note: Ta= 30 s ± 1 s

4. CALIBRATION

4.1 Calibration Statement

All equipment containing a calibration number is calibrated and traceable through TE Connectivity (TE).

5. VALIDATION

Requested by	/:						
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Product Engineer TE Connectivity India product engineer							
Prepared by:	Cynthia Wang	2020	08	05			

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