

AEAT-84AD Series

AEAT-84AD-LBSC0 (12 bits) and AEAT-84AD-LBSF0 (14 bits)



Reliability Data Sheet

Description

The following cumulative test results have been obtained from testing performed at Avago Technologies Malaysia in accordance with the latest revisions of IEC68.

Avago tests parts at the absolute maximum rated conditions recommended for the device. The actual performance you obtain from Avago parts depends on the electrical and environmental characteristics of your application but will probably be better than the performance outlined in Table 1.

Table 1. Life Tests

Test Name	Reference	Test Conditions	Units Tested	Units Failed
Dry Heat	IEC68-2-2	After storage at maximum operating temperature (125°C) for 96 hours with charge voltage of 5.5 V. Measured in Room Temperature (27°C)	32	0
Damp Heat Steady State	IEC68-2-3	Stored in 85°C & RH 85% for 96 hours with charge voltage of 5.5V. Measured in Room Temperature (27°C)	32	0
Cold Test	IEC68-2-1	After storage at minimum operating temperature (-40°C) for 96 hours with charge voltage of 5.5 V. Measured in Room Temperature (27°C)	3	0

Table 2. Environmental Tests

Test Name	Reference	Test Conditions	Units Tested	Units Failed
Change of Temperature	IEC68-2-14Nb	-40(30min)-(33min)-+ 125(30min) After 10 cycles measure in Room Temperature (27°C)	32	0
Change of Temperature	IEC68-2-14Na	-40(30min)-(10sec)-+ 125(30min) After 5 cycles measure in Room Temperature (27°C)	3	0
Damp Heat Steady State	IEC68-2-3	Stored in 85°C & RH 85% for 96 hours without charge. Measured in Room Temperature (27°C)	3	0
Dry Heat	IEC68-2-2	Stored in 125°C for 96 hours without charge. Measured in Room Temperature (27°C)	32	0
Cold Test	IEC68-2-1	After storage at minimum operating temperature (-40°C) for 96 hours without charge. Measured in Room Temperature (27°C)	32	0

Table 3. Mechanical Tests

Test Name	Reference	Test Conditions	Units Tested	Units Failed
Vibration Test	IEC68-2-21	15min sweep from 2-2000Hz at 10G. After X, Y & Z direction. Measured in Room Temperature (27°C)	3	0
Shock	IEC68-2-27	15G at 10msec. After X, Y & Z direction. Measured in Room Temperature (27°C)	3	0

Table 4. Electrical Tests

Test Name	Reference	Test Conditions	Units Tested	Units Failed
Electrostatic Discharge Immunity test	IEC60749-26	Charge at ± 2 kV at 10 pulses each. Measured in Room Temperature (27°C)	3	0

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