

AEAT-8811-Q24

10-Bit to 16-Bit Programmable Angular Magnetic Encoder with No Offset Calibration Setting

Overview

The following cumulative test results have been obtained from testing performed at Broadcom[®] in accordance with the latest revisions of the JEDEC standard. Broadcom tests parts at the absolute maximum rated conditions recommended for the device. The actual performance that you obtain from Broadcom 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
High Temperature Operating Life	JESD22A-108	Ta = 125°C for 1000 hours, VDD = 5.0V ± 0.5V	20	0
Temperature Humidity Bias	JESD22A-101	Preconditioning + Ta = 85°C, RH = 85% for 1000 hours, VDD = 5.0V ± 0.5V	10	0
Low Temperature Operating Life	JESD22A-108	Ta = -40°C for 1000 hours, VDD = 5.0V ± 0.5V	10	0

Table 2: Environmental Tests

Test Name	Reference	Test Conditions	Units Tested	Units Failed
Temperature Cycling	JESD22A-104	-40°C to 125°C (Condition G), Preconditioning + 500 cycles	10	0
High Temperature Storage Life	JESD22A-103	Ta = 150°C for 1000 hours	10	0
Unbiased Temperature Humidity Test (Unbiased HAST)	JESD22A-118	Preconditioning + Ta = 130°C, RH = 85% for 96 hours	10	0

Table 3: Electrical Tests

Test Name	Reference	Test Conditions	Units Tested	Units Failed
Human Body Model ESD	JESD22A-114	Up to ± 2000V applied to all pins versus ground	9	0

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