

Reliability Summary Report

Product Type: 16GB uSD

Capacity	Part Number
16GB	KTUDAGP2AKIU1

1. Product Information

Product No.	Dimensions	JEDEC Standard
KTUDAGP2AKIU1	11 x 15 x 1 mm	SD v6.1

2. Test Summary

Product Test Result				
<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL				
	Test Items	Test Results		Notes
1	Performance	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	
2	Electrical Performance	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	
3	Reliability	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	

3. Performance

3.1. Crystal-Disk Mark Benchmark V5.0.2

Capacity	Sequential (Q32T1)		Random 4KB (Q32T1)		Sequential		Random 4KB	
	Read	Write	Read	Write	Read	Write	Read	Write
16GB	92.77	82.43	13.42	9.27	95.85	82.05	11.47	8.42

(Unit : MB/s)

3.2. TestMetrix_Performance

Drive	Configuration	Sequential Read (MB/s)	Sequential Write (MB/s)
16GB	SDR104 (UHS-I, 1.8V, 208MHz)	100	85

(1) Performance measured using Testmetrix VTE-4100.

4. Electrical Performance

4.1. Power Consumption

Parameter	16GB	Unit
Read Current	90	mA
Write Current	85	mA
Idle Current	100	μA

(1) The testing result is measured by Crystal Disk Mark 5.1.2

(2) The measurement may vary among different host systems and settings.

5. Reliability

Test Item	Test Reference	Sample Size	Test Result
High Temperature Storage Test	IEC 60068-2-2	5	Pass
High Temperature Operation Test	IEC 60068-2-2	5	Pass
Low Temperature Storage Test	IEC 60068-2-1	5	Pass
Low Temperature Operation Test	IEC 60068-2-1	5	Pass
Temperature & Humidity Storage Test	IEC 60068-2-3	5	Pass

Test Item	Test Reference	Sample Size	Test Result
Temperature & Humidity Operation Test	IEC 60068-2-3	5	Pass
Temperature Cycling Storage Test	IEC 60068-2-14	5	Pass
Temperature Cycling Operation Test	IEC 60068-2-14	5	Pass
Bending Test	SDA SPEC.	5	Pass
Torque Test	SDA SPEC.	5	Pass
Drop Test	SDA SPEC.	5	Pass
Vibration Test	IEC 60068-2-6	5	Pass
Durability Test	EIA 364-13	5	Pass
Salt Spray Test	MIL STD-883 Method 1009	5	Pass
Mechanical Shock Test	IEC 60068-2-27	5	Pass
Waterproof Test	IEC 60529	5	Pass
X-Ray Exposure Test	ISO 7816-1	5	Pass