

REPORT No.

MPT-7291

TEST DESCRIPTION

Mechanical TEST

1. TEST PURPOSE

To verify the sample whether it can meet the requirement of Mechanical Characteristics.

2. TEST DESCRIPTION

P/N: (R)G38A31000B SAS 32P connector Insertion force test, 5pcs.

3. TEST REQUIREMENT AND PROCEDURE

3.1 Insertion force test, EIA 364-13 measure the force necessary to mate the connector assemblies at maximum rate of 12.5mm per minute.

4. TEST EQUIPMENT

4.1 1220S for the Insertion force test.

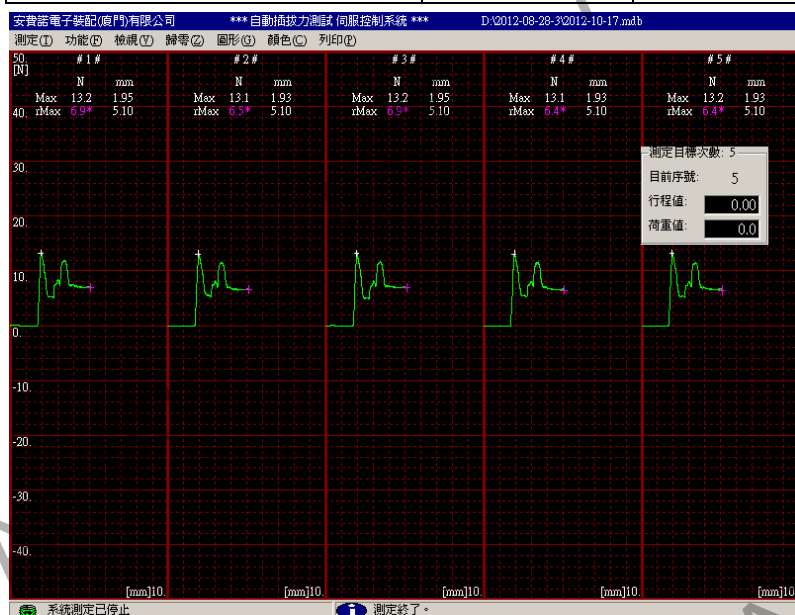
5. TEST RESULT AND RECORD

Temperature: 24.1 °C

Humidity: 50 %

5.1 Insertion force test @ 12.5mm per minute.

Test Item	#1	#2	#3	#4	#5
Insertion Force (Max:45N)	13.2	13.1	13.2	13.1	13.2
Test result	PASS	PASS	PASS	PASS	PASS



6. TEST RESULT

All samples pass the insertion force test.

----- THE END OF REPORT -----

PREPARED BY

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DATE

2012-10-17

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DATE

2012-10-17

REPORT No.

FAI-11322

TEST DESCRIPTION

ELECTRICAL TEST

1. TEST PURPOSE

Evaluate the electrical performance of sample assembly.

2. TEST DESCRIPTION

P/N:RSS32-0206 32P SAS to 4X SATA cable ass'y ,3pcs.

3. TEST REQUIREMENT AND PROCEDURE

See the data record table

4. TEST EQUIPMENT

4.1 TEKTRONIX TDS8000 + TEKTRONIX 80E04 for Impedance,skew and risetime test

4.2 Agilent N5230A for Insertion Loss and NEXT test

5. TEST RESULT AND RECORD

Temperature:23.2℃

Humidity: 58.5 %

Sample No.	Signal	Impedance(Risetime=70ps, 20%~80%)								Intra-pair skew (Risetime =70ps, 20%~80%)	Rise time	Crosstalk (Risetime = 70ps, 20%~80%)	Insertion Loss	RESULT
		Differential impedance						Cable pair matching	Common mode					
		Termination area				Cable Absolute area								
		SAS 36P		SATA										
		Wire	MAX	MIN	MAX	MIN	MAX	MIN						
	Unit	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	ps	ps	dB	dB	
	High Limit	115	115	115	115	110	110	5	40	10	85	-26	<6	
	Lower Limit	85	85	85	85	90	90	0	25	0	0	-100	0	
#1	Pair 1	102.1	90.7	99.8	89.7	99.7	99.3	0.1	29.5	1.1	74.4	-38.14	2.92	PASS
	Pair 2	99.8	86.6	99.3	89.4	98.8	98.3	2.1	29.8	0.8	74.6		2.48	
	Pair 3	106.3	96.3	100.6	88.5	99.9	98.4	0.5	29.5	1.4	74.1	-38.11	2.48	
	Pair 4	104.3	89.5	100.2	89.5	100.8	99.6	0.4	29.4	2.0	75.2		2.72	
	Pair 5	101.6	89.3	102.6	92.8	99.3	98.1	1.3	29.6	2.4	75.3	-38.28	2.95	
	Pair 6	100.6	89.7	102.6	92.9	99.9	99.2	0.4	29.5	1.6	74.9		2.75	
	Pair 7	100.9	88.1	100.5	88.7	99.1	98.2	1.3	29.3	2.8	74.4	-37.02	2.45	
	Pair 8	107.4	92.7	101.2	88.4	100.1	99.3	1.1	29.5	2.1	74.3		2.60	
#2	Pair 1	101.3	86.9	102.5	93.8	100.0	98.0	0.8	29.8	5.8	74.1	-36.52	2.67	PASS
	Pair 2	101.2	87.2	106.3	92.8	101.1	100.0	1.2	29.6	0.7	74.6		2.64	
	Pair 3	105.4	85.1	105.5	91.4	99.2	97.9	1.4	29.6	0.5	73.8	-38.29	2.44	
	Pair 4	99.0	89.9	104.1	94.9	100.3	98.7	1.4	28.9	6.6	75.3		2.70	
	Pair 5	100.5	89.3	99.8	91.2	100.1	99.3	1.6	29.9	4.8	75.4	-34.04	2.75	
	Pair 6	99.9	88.9	101.9	91.6	99.0	98.3	1.3	28.9	2.6	75.6		2.69	
	Pair 7	100.0	89.2	101.0	92.6	99.8	99.0	0.2	28.8	3.6	75.6	-37.71	2.81	
	Pair 8	107.3	92.8	103.4	93.8	99.0	98.0	0.7	29.2	2.1	75.2		2.71	
#3	Pair 1	100.5	89.8	99.6	90.4	100.2	99.2	0.6	30.2	1.0	75.6	-38.89	2.37	PASS
	Pair 2	98.9	89.9	100.5	90.3	99.1	97.9	0.5	30.1	0.3	75.5		2.88	
	Pair 3	105.4	91.6	100.3	89.3	99.6	98.9	0.2	30.1	2.2	76.1	-35.56	2.25	
	Pair 4	99.4	90.4	100.1	89.9	98.8	97.7	0.7	30.5	6.0	75.3		2.37	
	Pair 5	99.0	89.3	104.8	96.0	100.3	99.4	1.1	28.9	3.2	74.5	-36.95	2.84	
	Pair 6	100.1	91.0	103.8	95.5	99.7	98.4	1.9	29.6	1.8	74.9		2.47	
	Pair 7	101.1	90.1	104.7	91.0	98.7	96.8	1.2	29.1	2.2	75.3	-38.28	2.53	
	Pair 8	104.5	93.5	99.6	91.8	99.9	98.7	1.4	29.0	2.1	75.4		2.53	
	MAX	107.4	96.3	106.3	96.0	101.1	100.0	2.1	30.5	6.6	76.1	-34.0	3.0	
	MIN	98.9	85.1	99.3	88.4	98.7	96.8	0.1	28.8	0.3	73.8	-38.9	2.3	
	AVERAGE	101.9	90.0	101.9	91.5	99.7	98.6	1.0	29.5	2.5	75.0	-37.3	2.6	

6. TEST RESULT

All samples pass the electrical test.

----- THE END OF REPORT -----

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2012-11-12

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2012-11-12