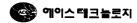
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7.4 Reliability test data

7.4.1 Reliability test report(1/2)



				Prepared by	Checked By	Reviewed By	Approved By
Reliab	ility Test	Report (1	/2)	4			
				9/9	1	1	9/9
Model	LSP-400R	Date	05	.09.1~9.9	Measured by	s.w	.JUNG
Sample(n)	40	-			Product dep	t ACE	/ Q.A

1. Test reason : new approval objection

2. Test Result

NO.	Test item	spec	results	Sample(n)
1	Demision	Drawing spec	ок	3
2	V.S.W.R	824 ~ 894MHz, less than 2.5	ок	30
3	Visual inspection	visual deterioration shall occur (black spot,alien, gap)	ок	30
4	torque test	3kgf (After the test, no visual deterioration shall occur and the part of the cover and the frame shall remain mechanically bonded)	ок	3
5	traction test	7kgf (After the test, no visual deterioration shall occur) Joint + connector= bonding strength	ок	3
6	Drop test	SET(1200g) 1.5m, 1time After the test, the original shape shall be possible to restore	ок	3
7	Bending test	Bending force: more than 1kgf vibrational rate of BENDING force must have less than 50%.	ок	3
8	Environmental Demands	-Operation Temperature Test -Temperature Change Test -High Humidity Test -thermal shock test -Corrosion test	ок	3

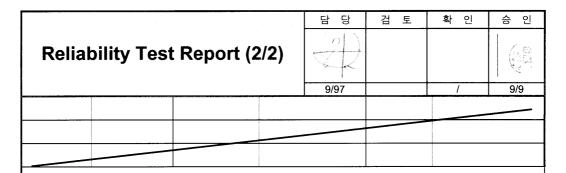
3. Conclusion: GOOD

AQF-80500-03.1R

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7.4.1 Reliability test report(2/2)





< other documents 1 > Test DATA

1. . Mechanical Demands

NO.	Test item	#1	#2	#3	Results
1	torque test	ок	ОК	ОК	GOOD
2	traction test	ок	ок	ок	GOOD
3	Drop test	ок	ок	ок	GOOD

2. BENDING Test (unit : Kgf)

NO	1	2	3	AVE	Results
Before	1.7	1.8	1.5	1.67	GOOD
After	1.2	1.2	1.0	1.13	GOOD
Strain rate	29.4	33.3	33.3	32.3	GOOD

- 3. V.S.W.R / V.S.W.R(Environmental) : other documents 2
- 4. Demision check data : other documents 3



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7.4.2 DIMENSION CHECK DATA

-					LSP-40	0R Antenn	a ass'y Din	LSP-400R Antenna ass'y Dimension check data	eck data				Date:2005.09.09
							DIMENSION						
							Unit : mm						Remark
		-	N	ω	4	O	o	7	ω	φ	10	1	
		208.0±2.0	164,0±2.0	61.0±0.3	16.0±0.3	33.6±0.5	Φ14.0±0.3	Φ15.0±0.3	10.7±0.3	Ф13.0±0.3	Ф12.0±0.3	Φ5.0±0.3	
	4	206.65	162.63	60.82	15.87	33.40	13.95	14.95	10.75	12.78	11.79	5.02	
	N	206.61	162.62	60.90	15.86	33.42	13.96	14.96	10.75	12.77	11.80	5.01	
	ω	206.60	162.63	60.90	15.88	33.42	13.96	14.95	10.74	12.77	11.81	5.01	

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7.4.3 VSWR CHECK DATA(1/2)



LSP-400R Antenna ass'y V.S.W.R check data

		Cleating	il (VSWR)	Date:2005.09.09
	Visual	0 DEG	1	_
	inspection	824~894MHz	90 DEG 824~894MHz	Remark
		LESS THAN 2.5	LESS THAN 2.1	
1	ОК	1.74	1.52	
2	OK	1.69	1.49	
3	ОК	1.80	1.60	
4	ОК	1.82	1.53	
5	ОК	1.69	1.55	
6	ОК	1.74	1.51	
7	ОК	1.77	1.42	
8	ОК	1.80	1.60	
9	OK	1.62	1.62	
10	ОК	1.65	1.49	
11	ОК	1.82	1.51	
12	ОК	1.71	1.50	
13	ОК	1.70	1.42	
14	ОК	1.69	1,49	
15	ОК	1.82	1.61	
16	ок	1.80	1.41	
17	ОК	1.65	1.48	
18	ОК	1.66	1.58	
19	ОК	1.69	1.55	
20	ОК	1.71	1.60	
21	ОК	1.80	1.42	
22	ОК	1.74	1.49	
23	ОК	1.69	1.58	
24	ОК	1.65	1.52	
25	ОК	1.74	1.56	
26	ОК	1.79	1.51	
27	ОК	1.72	1.47	
28	ОК	1.63	1.46	
29	ОК	1.80	1.61	
30	ОК	1.66	1.55	
USL 🖍	<u>-</u>	2.5	2.0	
LSL	•			
Xbar	-	1.726	1.522	
Max	-	1.82	1.62	
Min	•	1.62	1.41	
R	•	0.20	0.21	
StDev	-	0.063	0.062	
Сри	-	4.10	2.58	
Cpk	-	4.10	2.58	

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7.4.3 VSWR CHECK DATA(2/2)(After Environmental test)

ACE TECHNOLOGY

LSP-400R Antenna ass'y V.S.W.R check data (Environmental)

					· · · · · · · · · · · · · · · · · · ·	Date:2005.09.09
			Electrica	I (VSWR)		_
		Bef	ore	At	fter	
	Visual inspection	0 DEG	90 DEG	0 DEG	90 DEG	TEST ITEM
		824~894MHz	824~894MHz	824~894MHz	824~894MHz	
\		LESS THAN 2.5	LESS THAN 2.1	LESS THAN 2.5	LESS THAN 2.1	
1	оќ	1.74	1.52	1.70	1.50	
2	ок	1.69	1.49	1.66	1.51	High Temperature Test
3	ОК	1.80	1.60	1.72	1.58	
4 ,	ОК	1.82	1.53	1.77	1.51	
5	ОК	1.69	1.55	1.60	1.50	Low Temperature Test
6	ОК	1.74	1.51	1.71	1.46	
7	ок	1.77	1.42	1.70	1.49	
8	ОК	1.80	1.60	1.72	1.51	High Humidity Test
9	ок	1.62	1.62	1.69	1.58	
10	ок	1.65	1.49	1.61	1.44	
11	OK .	1.82	1.51	1.80	1.43	Corrosion Test
12	ок	1.71	1.50	1.79	1.41	
13	ОК	1.70	1.42	1.63	1.49	
14	ОК	1.69	1.49	1.60	1.51	Operation Temperature Test
15	ОК	1.82	1.61	1.74	1.58	
16	ОК	1.80	1.41	1.82	1.46	
17	ок	1.65	1.48	1.62	1.49	Thermal Shock Test
18	ок	1.66	1.58	1.64	1.55	

Quality Assurance Dept.

