



MINI RF Switch Connector

1. INTRODUCTION

1.1 Purpose

Testing was performed on the TE Connectivity (TE) RF Switch Connector to determine their conformance to the requirements of Product Specification 108-160040.

1.2 Scope

To determine the electrical and mechanical performance of the RF Switching Connector, when tested according to Tyco Electronics Design Objectives 108-160040.

1.3 Conclusion

All results meet the requirement according to Tyco Electronics Design Objectives 108-160040.

1.4 Product Part Number

2081956-1 RF Switch

1.5 Test plan and results:

试验项目 Test Items	试验分组Test Groups									
	A组	B组	C组	D组	E组	F组	G组	H组	I组	J组
外观检测 Examination of product	1, 11	1	1, 3	1,	1,	1, 6	1, 6	1, 3	1, 3	1, 5
接触电阻 Contact Resistance	2, 12			2, 4	2, 4	2, 7	2, 7			2, 4
绝缘电阻 Insulation Resistance	3					3, 8	3, 8			
耐电压 Withstanding Voltage	4					4, 9	4, 9			
电压驻波比 V.S.W.R	5, 13									
插入损耗 Insertion loss	6, 14									
隔离度 Isolation	7, 15									
插拔力 Mating & Unmating force	8, 10									
接触压力 Allowed push force		2, 4								
机械寿命 Durability	9	3								
焊点粘接力 Adhered of Electrode Terminal			2							
振动 Vibration				3						
冲击 Shock					3					
湿度试验 Humidity						5				
冷热冲击 Thermal Shock							5			
可焊性 Solder ability								2		
耐焊接热 Resistance to Soldering heat									2	
盐雾测试 Salt Spray										3
每组样品数量 Sample Qty	5pcs	5pcs	5pcs	5pcs	5pcs	5pcs	5pcs	5pcs	5pcs	5pcs
试验结果 Test Result	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

备注 Remark:
 1. A/B...J组试验按照数字顺序展开: Group of A/B/C...J according to the number order for test.
 2. 报告中NA表示不适用此项, /表示不须填写: "NA" is meaning of not applicable & "/" is meaning of no need.

2. Test content

A 组 Group A 室温 Room Temp.: 26℃ 室内湿度 Room R.H.: 60%RH

项目 Items	判定标准 Criteria Spec.	试验结果 Test result							
		1#	2#	3#	4#	5#	max.	min.	aver.
外观检查 Visual examination	应该无毛边、裂纹、破损、氧化: There should be no crack, damage or oxidation.	OK	OK	OK	OK	OK	/	/	/
尺寸检查 Examination of dimension	2.10±0.15	2.102	2.115	2.104	2.115	1.109	2.115	1.109	1.824
	0.50±0.05	0.498	0.492	0.495	0.493	0.492	0.498	0.492	0.494
	0.45±0.10	0.456	0.451	0.467	0.453	0.458	0.467	0.451	0.458
	□0.08max	0.002	0.009	0.012	0.006	0.009	0.012	0.002	0.007
接触电阻 Contact Resistance	Inner contact res. 70 mΩ max	66.82	67.67	67.19	66.45	66.53	67.67	66.45	66.97
	Outer contact res. 20 mΩ max	10.19	10.31	10.25	10.33	10.41	10.41	10.19	10.30
绝缘电阻 Insulation Resistance	500 MΩ min	OK	OK	OK	OK	OK	/	/	/
耐压 Withstanding Voltage	300V AC, 1min	OK	OK	OK	OK	OK	/	/	/
电压驻波比 V. S. W. R	0.88GHz 1.2 max	1.017	1.012	1.016	1.015	1.016	1.017	1.012	1.015
	1.88GHz 1.2 max	1.018	1.015	1.018	1.016	1.018	1.018	1.015	1.017
	1.99GHz 1.2 max	1.017	1.012	1.017	1.015	1.017	1.017	1.012	1.016
	2.40GHz 1.2 max	1.032	1.035	1.033	1.036	1.034	1.036	1.032	1.034
	3.00GHz 1.2 max	1.070	0.071	1.076	1.073	1.075	1.076	0.071	0.873
	4.00GHz 1.3 max	1.178	1.175	1.173	1.176	1.174	1.178	1.173	1.175
	5.00GHz 1.3 max	1.235	1.236	1.234	1.237	1.236	1.237	1.234	1.236
	6.00GHz 1.3 max	1.147	1.145	1.143	1.147	1.142	1.147	1.142	1.145
0~6.00GHz 1.3max	1.280	1.289	1.284	1.287	1.283	1.289	1.280	1.285	
插入损耗 Insertion loss	0.88GHz 0.1(-dB)max	0.014	0.012	0.016	0.013	0.015	0.016	0.012	0.014
	1.88GHz 0.1(-dB)max	0.033	0.035	0.032	0.036	0.031	0.036	0.031	0.033
	1.99GHz 0.1(-dB)max	0.019	0.017	0.012	0.016	0.017	0.019	0.012	0.016
	2.40GHz 0.1(-dB)max	0.050	0.052	0.056	0.053	0.054	0.056	0.050	0.053
	3.00GHz 0.1(-dB)max	0.016	0.017	0.013	0.018	0.015	0.018	0.013	0.016
	4.00GHz 0.2(-dB)max	0.032	0.035	0.034	0.036	0.031	0.036	0.031	0.034
	5.00GHz 0.2(-dB)max	0.086	0.089	0.086	0.084	0.086	0.089	0.084	0.086
	6.00GHz 0.2(-dB)max	0.048	0.045	0.043	0.045	0.042	0.048	0.042	0.045
0~6.00GHz 0.2(-dB)max	0.132	0.134	0.136	0.131	0.134	0.136	0.131	0.133	
隔离度 Isolation	0.88GHz 20(-dB)min	42.69	42.71	42.68	42.61	42.65	42.71	42.61	42.67
	1.88GHz 20(-dB)min	36.39	36.32	36.41	36.38	36.32	36.41	36.32	36.36
	1.99GHz 20(-dB)min	36.04	36.06	36.05	36.01	36.05	36.06	36.01	36.04
	2.40GHz 20(-dB)min	34.61	34.25	34.17	34.56	34.24	34.61	34.17	34.37
	3.00GHz 20(-dB)min	31.65	31.67	31.61	31.54	31.65	31.67	31.54	31.62
	4.00GHz 15(-dB)min	27.18	27.34	27.28	27.36	27.41	27.41	27.18	27.31
	5.00GHz 15(-dB)min	25.47	25.37	25.42	25.36	25.39	25.47	25.36	25.41
	6.00GHz 15(-dB)min	24.71	24.64	24.77	24.62	24.68	24.77	24.62	24.69
0~6.00GHz 15(-dB)min	24.72	24.78	24.73	24.76	24.78	24.78	24.72	24.75	
插拔力 Mating & unmating force	Mating force:30N max	19.25	19.17	19.24	19.36	19.18	19.36	19.17	19.25
	Unmating force:(5-30)N	10.78	10.65	10.28	10.24	10.61	10.78	10.24	10.51
机械寿命Durability 将母座焊接在测试板上, 然后, 通过插拔力测试仪沿配合方向以每分钟25±3毫米的速度插拔公母头100个循环, 然后测试参数: Mate and un-mate the receptacle connector(soldered to the test board) and plug connector 500 cycles at the speed of 25± 3mm/minutes along the mating direction by the push-push machine;									

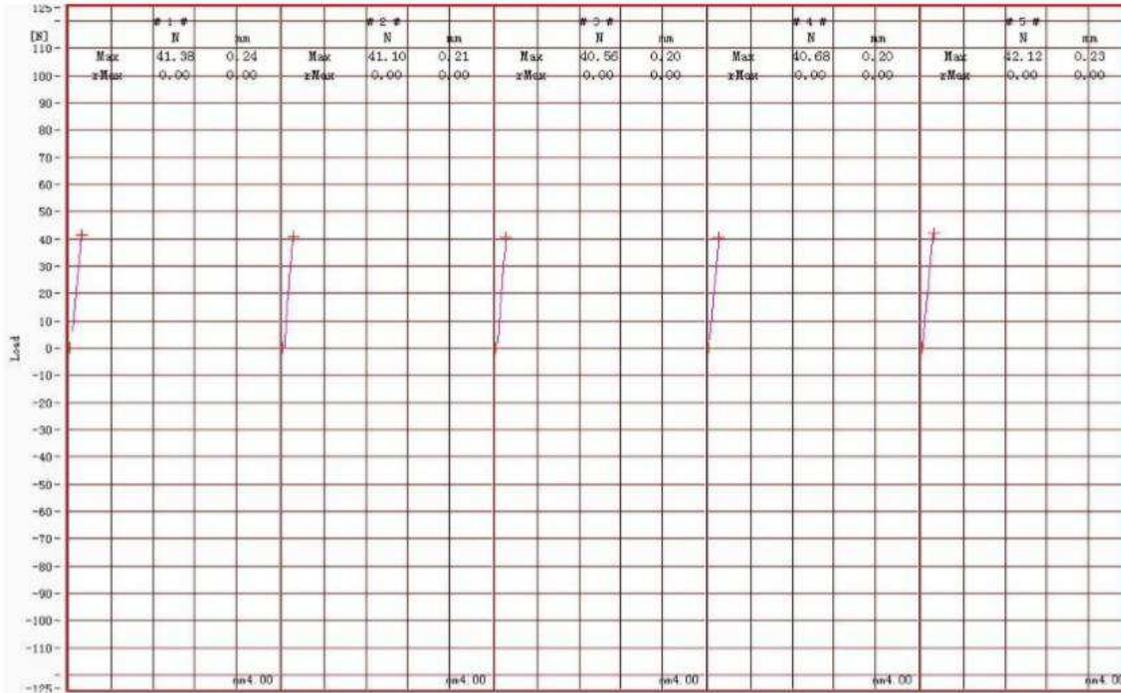
插拔力 Mating & unmating force	Mating force:30N max	13.74	13.61	13.92	13.24	13.09	13.92	13.09	13.52
	Unmating force:(5-30)N	10.85	10.17	10.65	10.54	10.69	10.85	10.17	10.58
接触电阻 Contact Resistance	Inner contact res. 70 mΩ max	68.25	68.11	67.86	67.44	68.09	68.25	67.44	67.95
	Ourer contact res. 20 mΩ max	10.92	10.78	10.86	10.44	10.56	10.92	10.44	10.71
电压驻波比 V. S. W. R	0.88GHz 1.2 max	1.018	1.017	1.013	1.018	1.015	1.018	1.013	1.016
	1.88GHz 1.2 max	1.019	1.020	1.015	1.019	1.018	1.020	1.015	1.018
	1.99GHz 1.2 max	1.017	1.016	1.012	1.016	1.015	1.017	1.012	1.015
	2.40GHz 1.2 max	1.033	1.035	1.035	1.032	1.036	1.036	1.032	1.034
	3.00GHz 1.2 max	1.071	1.069	1.065	1.069	1.065	1.071	1.065	1.068
	4.00GHz 1.3 max	1.179	1.178	1.181	1.183	1.176	1.183	1.176	1.179
	5.00GHz 1.3 max	1.237	1.235	1.238	1.237	1.232	1.238	1.232	1.236
	6.00GHz 1.3 max	1.150	1.157	1.149	1.152	1.156	1.157	1.149	1.153
插入损耗 Insertion loss	0~6.00GHz 1.3max	1.282	1.287	1.283	1.289	1.285	1.289	1.282	1.285
	0.88GHz 0.1(-dB)max	0.026	0.024	0.026	0.023	0.025	0.026	0.023	0.025
	1.88GHz 0.1(-dB)max	0.020	0.024	0.021	0.025	0.023	0.025	0.020	0.023
	1.99GHz 0.1(-dB)max	0.003	0.005	0.002	0.006	0.001	0.006	0.001	0.003
	2.40GHz 0.1(-dB)max	0.067	0.065	0.063	0.066	0.064	0.067	0.063	0.065
	3.00GHz 0.1(-dB)max	0.000	0.001	0.002	0.001	0.000	0.002	0.000	0.001
	4.00GHz 0.2(-dB)max	0.053	0.056	0.053	0.057	0.052	0.057	0.052	0.054
	5.00GHz 0.2(-dB)max	0.063	0.063	0.067	0.062	0.065	0.067	0.062	0.064
隔离度 Isolation	6.00GHz 0.2(-dB)max	0.076	0.079	0.074	0.077	0.075	0.079	0.074	0.076
	0~6.00GHz 0.2(-dB)max	0.153	0.153	0.157	0.155	0.152	0.157	0.152	0.154
	0.88GHz 20(-dB)min	42.70	42.71	42.76	42.69	42.71	42.76	42.69	42.71
	1.88GHz 20(-dB)min	36.40	36.42	36.45	36.39	36.41	36.45	36.39	36.41
	1.99GHz 20(-dB)min	35.98	36.01	35.92	35.95	35.95	36.01	35.92	35.96
	2.40GHz 20(-dB)min	34.53	34.51	34.55	34.56	34.52	34.56	34.51	34.53
	3.00GHz 20(-dB)min	31.68	31.65	31.62	31.67	31.65	31.68	31.62	31.65
	4.00GHz 15(-dB)min	27.19	27.17	27.24	27.19	27.11	27.24	27.11	27.18
A组判定 Criteria for group A	在以上标准范围内 In the spec.	OK	OK	OK	OK	OK	OK	OK	OK
	设备名称 Equipment name				设备型号 Model	下次校准日期Next cal. Date			
使用设备 Equipment used	1、显微镜 Microscope				NH32-ZIX-E	NA			
	2、直流低阻抗测试仪 Low DC res. tester				HG2511	2019.07.16			
	3、绝缘电阻测试仪 Isolation res. tester				TH2681A	2019.01.04			
	4、耐压测试仪 Withstand voltage tester				JB7120	2019.01.04			
	5、二次元 The two dimension				2515EV-01	2019.07.16			
	6、网络分析仪 Network analyzer				E5071CMY46524941	2019.01.04			

B 组 Group B 室温Room Temp.: 26℃ 室内湿度Room R.H.: 60%RH

项目 Items	判定标准 Criteria Spec.	试验结果 Test result							
		6#	7#	8#	9#	10#	max.	min.	aver.
外观检查 Visual examination	应该无毛边、裂纹、破损、氧化; There should be no crack, damage or oxidation.	OK	OK	OK	OK	OK	/	/	/
接触压力 Allow push force	1.5N-2.5N	2.17	2.24	2.16	2.33	2.41	2.41	2.16	2.26
接触压力Allow push force 如下图所示, 通过测试探针以轴向力下压开关的动弹片, 使开关完全断开, 测试所施加的力: Push the connector switch from on-state to off-state. Using a test probe as shown in the Figure with the required force along the axis direction.									
接触压力 Allow push force	1.5N-2.5N	1.95	2.01	1.96	1.93	1.97	2.01	1.93	1.96
外观检查 Visual examination	应该无毛边、裂纹、破损、氧化; There should be no crack, damage or oxidation.	OK	OK	OK	OK	OK	/	/	/
B组判定 Criteria for group B	在以上标准范围内 In the spec.	OK	OK	OK	OK	OK	OK	OK	OK
使用设备 Equipment used	设备名称 Equipment name		设备型号 Model			下次校准日期Next cal. Date			
	1、显微镜 Microscope		NH32-ZTX-E			NA			
2、插拔试验机Insert&pulling force tester		1220S			2019.07.16				

C 组 Group C 室温Room Temp.: 26℃ 室内湿度Room R.H.: 60%RH

项目 Items	判定标准 Criteria Spec.	试验结果 Test result							
		11#	12#	13#	14#	15#	max.	min.	aver.
外观检查 Visual examination	应该无毛边、裂纹、破损、氧化; There should be no crack, damage or oxidation.	OK	OK	OK	OK	OK	/	/	/
焊点粘接力Adhered of Electrode Terminal 将样品焊在测试PCB上, 按图示方法在下列条件下测量: DUT samples soldered on the PCB, measure recording to figure under condition as following 1. Force(拉力):40N 2. Time(时间):5±1s.									
外观检查 Visual examination	应该无毛边、裂纹、破损、氧化; There should be no crack, damage or oxidation.	OK	OK	OK	OK	OK	/	/	/
C组判定 Criteria for group C	在以上标准范围内 In the spec.	OK	OK	OK	OK	OK	OK	OK	OK
使用设备 Equipment used	设备名称 Equipment name		设备型号 Model			下次校准日期Next cal. Date			
	1、显微镜 Microscope		NH32-ZTX-E			NA			
2、插拔试验机Insert&pulling force tester		1220S			2019.07.16				



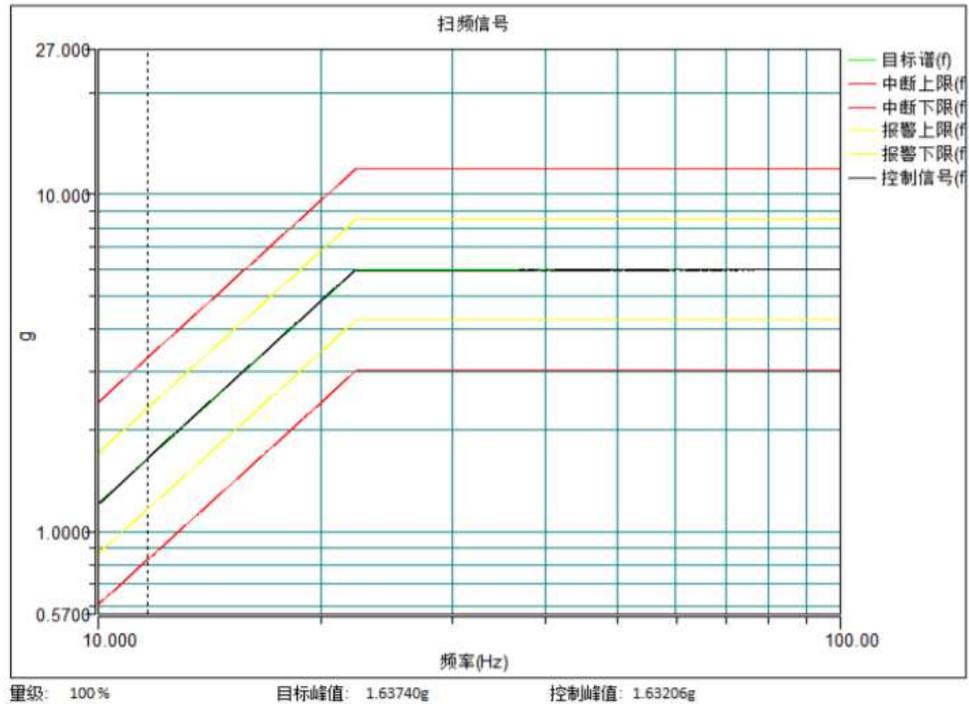
D 组 Group D 室温 Room Temp.: 26℃ 室内湿度 Room R.H.: 60%RH

项目 Items	判定标准 Criteria Spec.	试验结果 Test result							
		16#	17#	18#	19#	20#	max.	min.	aver.
外观检查 Visual examination	应该无毛边、裂纹、破损、氧化; There should be no crack, damage or oxidation.	OK	OK	OK	OK	OK	/	/	/
接触电阻 Contact Resistance	Inner contact res. 70 mΩ max	66.35	67.24	66.87	66.64	67.09	67.24	66.35	66.84
	Outer contact res. 20 mΩ max	10.42	10.61	10.29	10.34	10.25	10.61	10.25	10.38
振动Vibration 频率Frequency: 10Hz-100Hz-10Hz/20min; 半振幅amplitude: 3mm (P-P); 最大加速度Peak value of acceleration: 60m/s ² (6G); 方向和时间Direction & durability :3 times at each of X、Y、Z axis, 10-100-10Hz/20min 试验过程中电不连续时间不超过1us, 1次。 No discontinuities more than 1 μs, 1 times at the testing process									
接触电阻 Contact Resistance	Inner contact res. 70 mΩ max	68.35	67.44	67.56	68.24	67.25	68.35	67.25	67.77
	Outer contact res. 20 mΩ max	10.86	10.62	10.79	10.86	10.83	10.86	10.62	10.79
外观检查 Visual examination	应该无毛边、裂纹、破损、氧化; There should be no crack, damage or oxidation.	OK	OK	OK	OK	OK	/	/	/
D组判定 Criteria for group D	在以上标准范围内 In the spec.	OK	OK	OK	OK	OK	OK	OK	OK
使用设备 Equipment used	设备名称 Equipment name		设备型号 Model			下次校准日期Next cal. Date			
	1、显微镜 Microscope		NH32-ZTX-E			NA			
	2、直流低阻抗测试仪 Low DC res. tester		HG2511			2019.07.16			
	3、振动试验机 Vibration test equipment		EV-206			2019.01.11			
4、瞬断仪 Moment disconnection tester		NAC NM-11A			2019.01.04				

Remark:

目标谱

目标谱加速度峰值:	6 g
目标谱速度峰值:	0.419882 m/s
目标谱位移峰值:	6 mm
振动台加速度 (峰值):	50.0000 g
振动台速度 (峰值):	1.6000 m/s
振动台位移 (峰值):	25.0000 mm



- NOTE: 1. The test result is responsible for the specimens only.
 2. Do not partial or whole copy without the written permission of ECT Lab.

E 组 Group E 室温 Room Temp.: 26℃ 室内湿度 Room R. H.: 60%RH

项目 Items	判定标准 Criteria Spec.	试验结果 Test result							
		21#	22#	23#	24#	25#	max.	min.	aver.
外观检查 Visual examination	应该无毛边、裂纹、破损、氧化; There should be no crack, damage or oxidation.	OK	OK	OK	OK	OK	/	/	/
接触电阻 Contact Resistance	Inner contact res. 70 mΩ max	66.24	66.86	67.19	66.65	66.36	67.19	66.24	66.66
	Outer contact res. 20 mΩ max	10.67	10.62	10.51	10.73	10.46	10.73	10.46	10.60
机械冲击 Mechanical Shock 振幅峰值 Peak value of acceleration: 735m/s ² (75G), 持续时间 Durability: 6ms 波型 Wave type: Half sinusoidal 方向和循环次数: X、Y、Z三个轴向六个面各3次, 总共18次; Shock direction & times :Each 3 times at six surfaces of X、Y、Z axis, total 18 times, 试验过程中电不连续时间不超过1us, 1次。 No discontinuities more than 1μs, 1times at the testing.									
接触电阻 Contact Resistance	Inner contact res. 70 mΩ max	68.17	68.24	67.78	68.19	67.56	68.24	67.56	67.99
	Outer contact res. 20 mΩ max	10.95	10.89	10.87	10.98	10.54	10.98	10.54	10.85
外观检查 Visual examination	应该无毛边、裂纹、破损、氧化; There should be no crack, damage or oxidation.	OK	OK	OK	OK	OK	/	/	/
E组判定 Criteria for group E	在以上标准范围内 In the spec.	OK	OK	OK	OK	OK	OK	OK	OK
使用设备 Equipment used	设备名称 Equipment name				设备型号 Model		下次校准日期 Next cal. Date		
	1、显微镜 Microscope				NH32-ZTX-E		NA		
	2、直流低阻抗测试仪 Low DC res. tester				HG2511		2019.07.16		
	3、机械冲击试验机 Mechanical shock equipment				ST-3040		2019.01.04		
	4、瞬断仪 Moment disconnection tester				NAC NM-11A		2019.01.04		

备注 Remark:

在冲击试验过程中没有发现电不连续现象。

There is no discovery of discontinuities at the testing process.

F 组 Group F 室温 Room Temp.: 26°C 室内湿度 Room R.H.: 60%RH

项目 Items	判定标准 Criteria Spec.	试验结果 Test result							
		26#	27#	28#	29#	30#	max.	min.	aver.
外观检查 Visual examination	应该无毛边、裂纹、破损、氧化; There should be no crack, damage or oxidation.	OK	OK	OK	OK	OK	/	/	/
接触电阻 Contact Resistance	Inner contact res. 70 mΩ max	66.56	67.12	67.09	66.92	66.87	67.12	66.56	66.91
	Outer contact res. 20 mΩ max	10.33	10.41	10.28	10.35	10.24	10.41	10.24	10.32
绝缘电阻 Insulation Resistance	500 MΩ min	OK	OK	OK	OK	OK	/	/	/
耐压 Withstanding Voltage	300V AC, 1min	OK	OK	OK	OK	OK	/	/	/
湿度试验 Humidity 对已配合的连接器施加下列条件测试 apply the following environment to the mating connector. 温度 temperature: 60°C 湿度 humidity: 95%RH 时间 durability: 96H 备注: 所有测试应在试验完成后静置于室温条件下1~2小时内完成; Remark: Measurements should be done within 1~2 hours at the room conditions.									
接触电阻 Contact Resistance	Inner contact res. 70 mΩ max	67.45	68.12	67.68	67.35	68.09	68.12	67.35	67.74
	Outer contact res. 20 mΩ max	10.86	10.73	10.78	10.64	10.61	10.86	10.61	10.72
绝缘电阻 Insulation Resistance	500 MΩ min	OK	OK	OK	OK	OK	/	/	/
耐压 Withstanding Voltage	300V AC, 1min	OK	OK	OK	OK	OK	/	/	/
外观检查 Visual examination	应该无毛边、裂纹、破损、氧化; There should be no crack, damage or oxidation.	OK	OK	OK	OK	OK	/	/	/
F组判定 Criteria for group F	在以上标准范围内 In the spec.	OK	OK	OK	OK	OK	OK	OK	OK
使用设备 Equipment used	设备名称 Equipment name		设备型号 Model			下次校准日期 Next cal. Date			
	1、显微镜 Microscope		NH32-ZIX-E			NA			
	2、直流低阻抗测试仪 Low DC res. tester		HG2511			2019.07.16			
	3、绝缘电阻测试仪 Isolation res. tester		IH2681A			2019.01.04			
	4、耐压测试仪 Withstand voltage tester		JB7120			2019.01.04			
5、环境试验箱 Environment test chamber		GXP-401			2019.01.04				

G 组 Group G 室温 Room Temp.: 26°C 室内湿度 Room R.H.: 60%RH

项目 Items	判定标准 Criteria Spec.	试验结果 Test result							
		31#	32#	33#	34#	35#	max.	min.	aver.
外观检查 Visual examination	应该无毛边、裂纹、破损、氧化; There should be no crack, damage or oxidation.	OK	OK	OK	OK	OK	/	/	/
接触电阻 Contact Resistance	Inner contact res. 70 mΩ max	67.09	67.34	66.86	66.54	67.09	67.34	66.54	66.98
	Outer contact res. 20 mΩ max	10.31	10.33	10.29	10.36	10.28	10.36	10.28	10.31
绝缘电阻 Insulation Resistance	500 MΩ min	OK	OK	OK	OK	OK	/	/	/
耐压 Withstanding Voltage	300v AC, 1min	OK	OK	OK	OK	OK	/	/	/

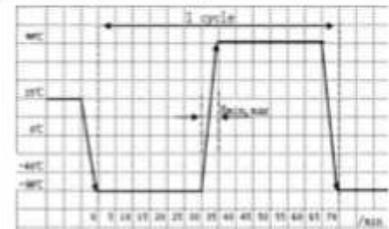
冷热冲击 Thermal Shock

对已插合之试验样品施加以下条件, 50个循环:

Apply the following environment condition 50 times to the mated samples.

备注: 所有测试应在试验完成后静置于室温条件下1~2小时内完成:

Remark: Measurements should be done within 1~2 hours at the room conditions.



接触电阻 Contact Resistance	Inner contact res. 70 mΩ max	68.09	67.87	67.45	68.12	67.98	68.12	67.45	67.90
	Outer contact res. 20 mΩ max	10.75	10.82	10.67	10.81	10.69	10.82	10.67	10.75
绝缘电阻 Insulation Resistance	500 MΩ min	OK	OK	OK	OK	OK	/	/	/
耐压 Withstanding Voltage	300v AC, 1min	OK	OK	OK	OK	OK	/	/	/
外观检查 Visual examination	应该无毛边、裂纹、破损、氧化; There should be no crack, damage or oxidation.	OK	OK	OK	OK	OK	/	/	/
G组判定 Criteria for group G	在以上标准范围内 In the spec.	OK	OK	OK	OK	OK	OK	OK	OK
使用设备 Equipment used	设备名称 Equipment name		设备型号 Model			下次校准日期 Next cal. Date			
	1、显微镜 Microscope		NH32-ZIX-E			NA			
	2、直流低阻抗测试仪 Low DC res. tester		HG2511			2019.07.16			
	3、绝缘电阻测试仪 Isolation res. tester		TH2681A			2019.01.04			
	4、耐压测试仪 Withstand voltage tester		JB7120			2019.01.04			
	5、冲击试验箱 Thermal shock chamber		KSKA-415TBS			2019.01.04			

H 组 Group H 室温Room Temp.: 26℃ 室内湿度Room R.H.: 60%RH

项目 Items	判定标准 Criteria Spec.	试验结果 Test result							
		36#	37#	38#	39#	40#	max.	min.	aver.
外观检查 Visual examination	应该无毛边、裂纹、破损、氧化、沾污; There should be no crack, damage, or oxidation.	OK	OK	OK	OK	OK	/	/	/
可焊性 Solderability 按下列条件对已配合的连接器进行测试。 Apply the following environment to the mating connector 温度Temperature : 245±5℃ 持续时间Duration : 3~5 second 观测Test sample should be observed by the magnification of 10times after the test.									
外观检查 Visual examination	吃锡面积大于95%及以上; At least 95% covered by a continuous new solder coat.	OK	OK	OK	OK	OK	/	/	/
使用设备 Equipment used	设备名称 Equipment name				设备型号 Model		下次校准日期Next cal. Date		
	1、显微镜 Microscope				NH32-ZIX-E		NA		
	2、锡炉 Solder bath				BD-100RA		2019.01.09		

I 组 Group I 室温Room Temp.: 26℃ 室内湿度Room R.H.: 60%RH

项目 Items	判定标准 Criteria Spec.	试验结果 Test result							
		41#	42#	43#	44#	45#	max.	min.	aver.
外观检查 Visual examination	应该无毛边、裂纹、破损、氧化; There should be no crack, damage or oxidation.	OK	OK	OK	OK	OK	/	/	/
尺寸检查 Examination of dimension	□ 0.08max	0.012	0.008	0.004	0.012	0.005	0.012	0.004	0.008
耐焊接热试验Resistance to soldering heat Apply the following environment to the mating connector Temperature:260±2℃ Duration:3~5min ; IR Reflow CYCLE:2cycles 按下列条件对已配合的连接器进行测试, 温度: 260±2℃ 持续时间: 3~5分钟, 过炉2次 备注: 每次试验后应用40倍放大镜进行观察 Remarks: The samples should be observed by the X40 microscope after each test.									
尺寸检查 Examination of dimension	□ 0.08max	0.016	0.009	0.005	0.015	0.007	0.016	0.005	0.010
外观检查 Visual examination	应该无毛边、裂纹、破损、氧化; There should be no crack, damage or oxidation.	OK	OK	OK	OK	OK	/	/	/
I组判定 Criteria for group I	在以上标准范围内 In the spec.	OK	OK	OK	OK	OK	/	/	/
使用设备 Equipment used	设备名称 Equipment name				设备型号 Model		下次校准日期Next cal. Date		
	1、显微镜 Microscope				NH32-ZIX-E		NA		
	2、二次元 The two dimension				2515EV-01		2019.07.16		
	3、回流焊炉 Reflow solder equipment				NS-800111		2019.01.04		

备注 Remark:

试验后测量平面度图片

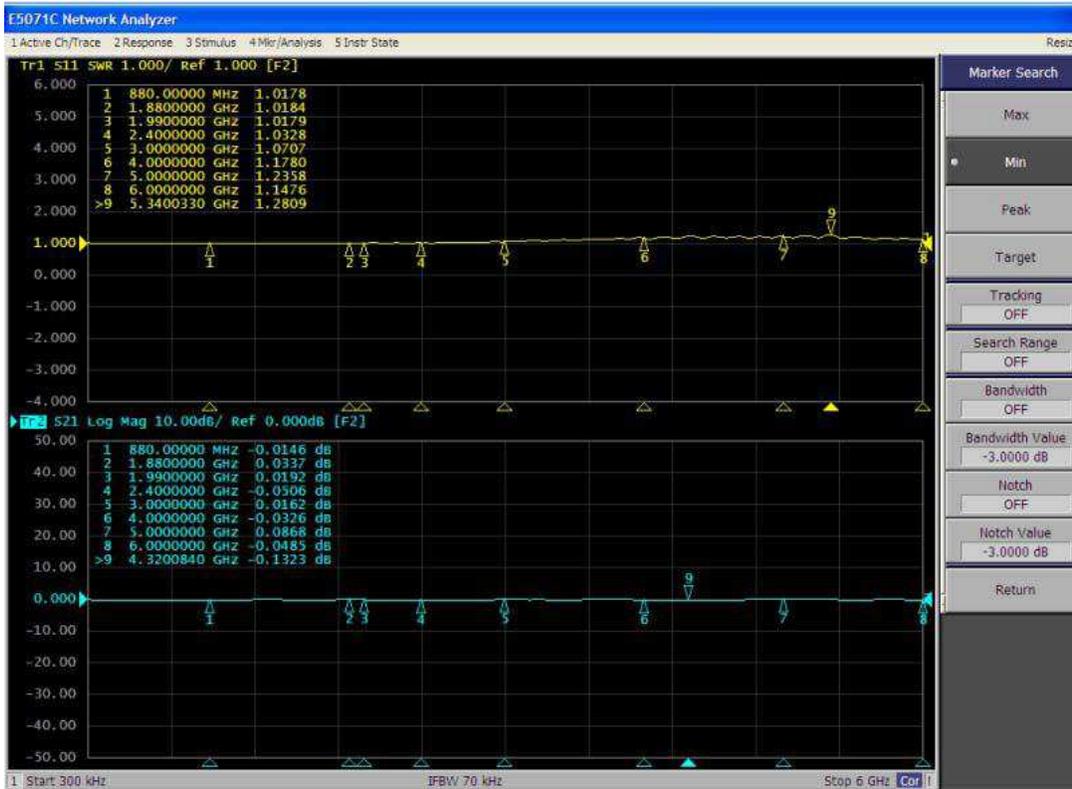


J 组 Group J 室温 Room Temp.: 26°C 室内湿度 Room R.H.: 60%RH

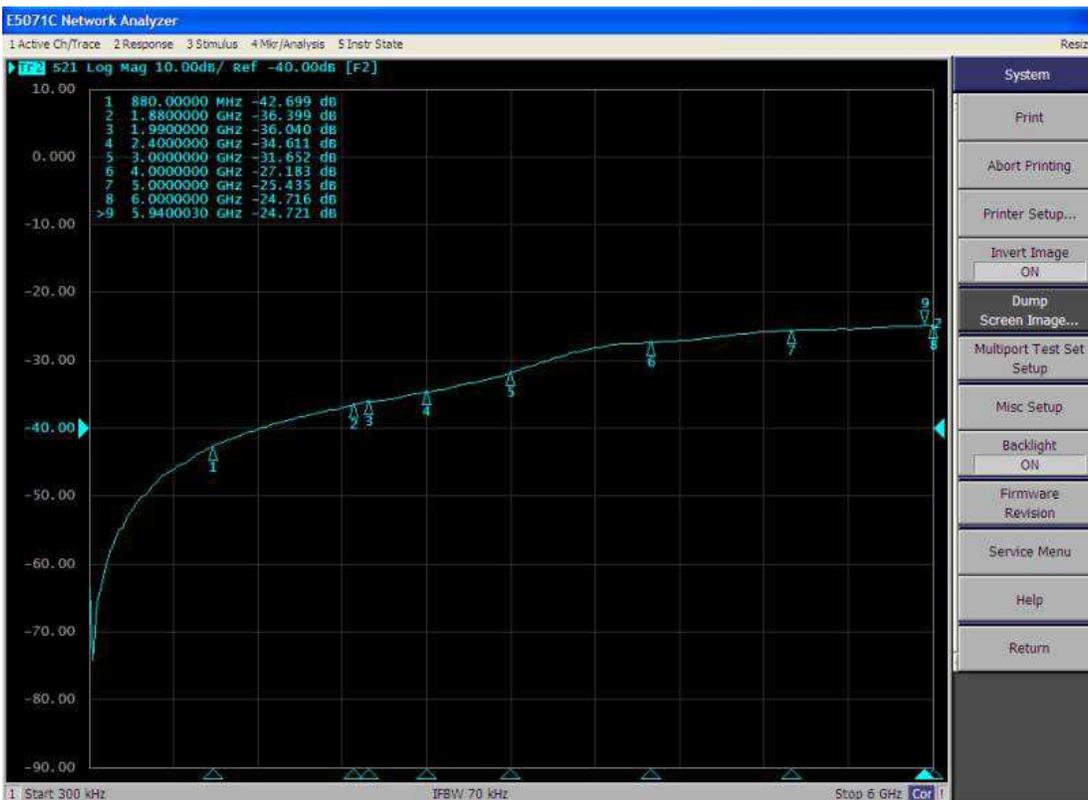
项目 Items	判定标准 Criteria Spec.	试验结果 Test result							
		46#	47#	48#	49#	50#	max.	min.	aver.
外观检查 Visual examination	应该无毛边、裂纹、破损、氧化; There should be no crack, damage or oxidation.	OK	OK	OK	OK	OK	/	/	/
接触电阻 Contact Resistance	Inner contact res. 70 mΩ max	67.62	66.58	67.09	66.86	66.54	67.62	66.54	66.94
	Outer contact res. 20 mΩ max	10.19	10.24	10.36	10.28	10.31	10.36	10.19	10.28
盐雾测试 Salt Spray test 对已插合的连接器施加以下试验条件: Apply the following condition to the mated connectors: 试验箱温度 chamber temperature: 35±2°C 盐水浓度 Salt water density: 5±1% 沉降速率 Spray speed: 1~2ml/h/80cm ² 时间 Duration: 48 hours 注意: 试验后应在不高于38°C的清水中清洗, 然后置于室温环境下恢复1~2小时后进行检测。 Notes: after the salt spray test, the samples should be washed in the clean water (temperature should no more than 38°C), and then place in the room temperature for recovery 1~2 hours, final inspection.									
外观检查 Visual examination	应该无毛边、裂纹、破损、氧化; There should be no crack, damage or oxidation.	OK	OK	OK	OK	OK	/	/	/
接触电阻 Contact Resistance	Inner contact res. 70 mΩ max	68.45	68.02	67.79	67.77	67.85	68.45	67.77	67.98
	Outer contact res. 20 mΩ max	10.89	10.84	10.87	10.83	10.95	10.95	10.83	10.88
J组判定 Criteria for group J	在以上标准范围内 In the spec.	OK	OK	OK	OK	OK	OK	OK	OK
使用设备 Equipment used	设备名称 Equipment name					设备型号 Model	下次校准日期 Next cal. Date		
	1、显微镜 Microscope					NH32-ZTX-E	NA		
	2、直流低阻抗测试仪 Low DC res. tester					HG2511	2019.07.16		
	3、盐雾试验箱 Salt spray test chamber					GX-150	2019.07.16		

Appendix

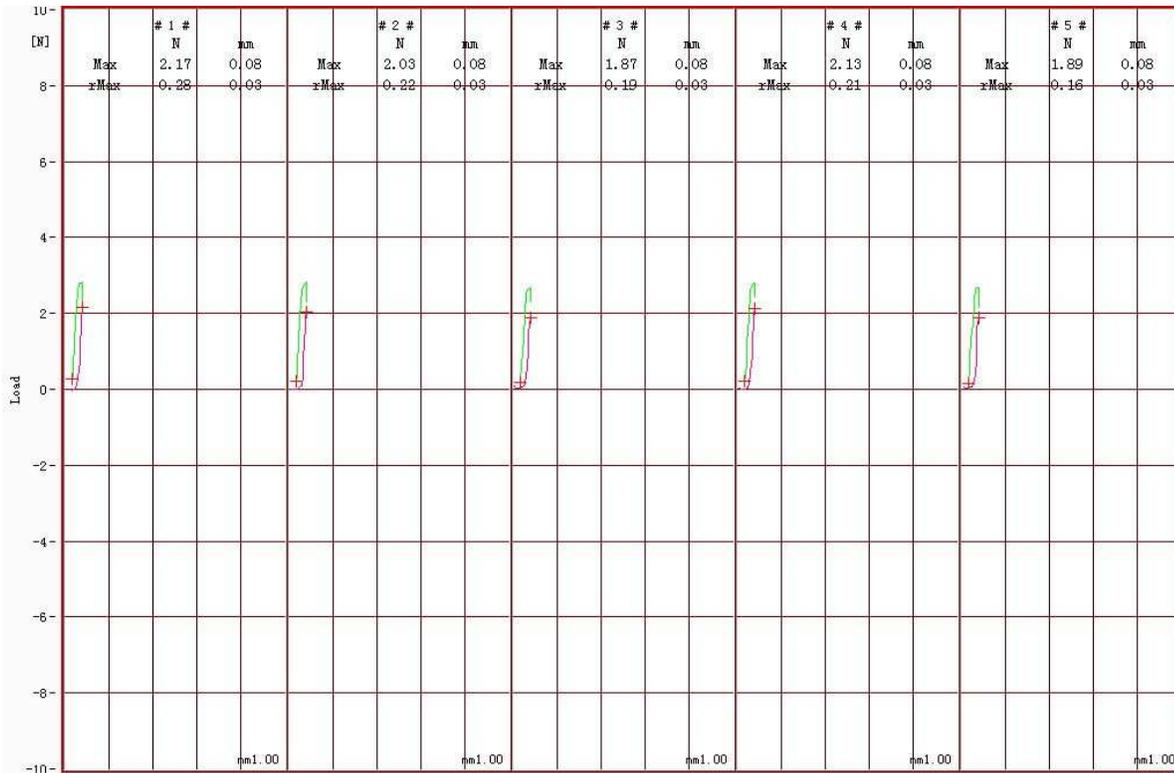
0~6GHz VSWR and IL:



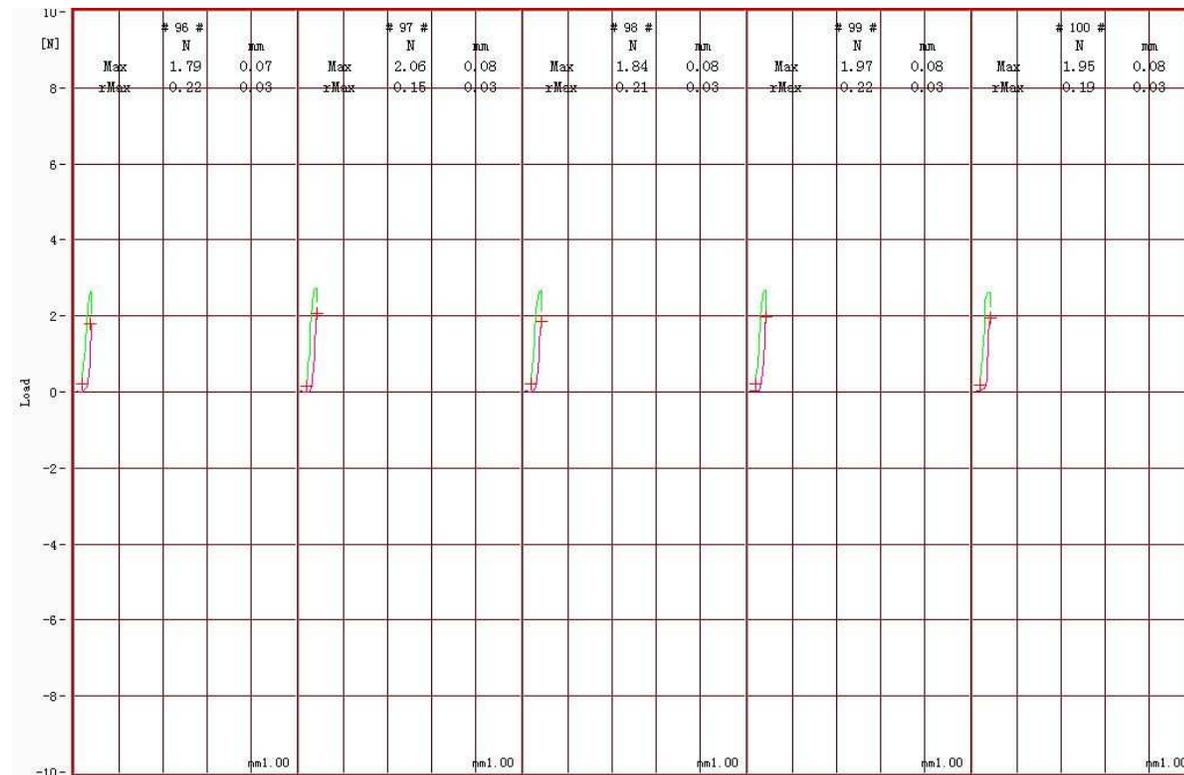
0~6GHz Isolation:



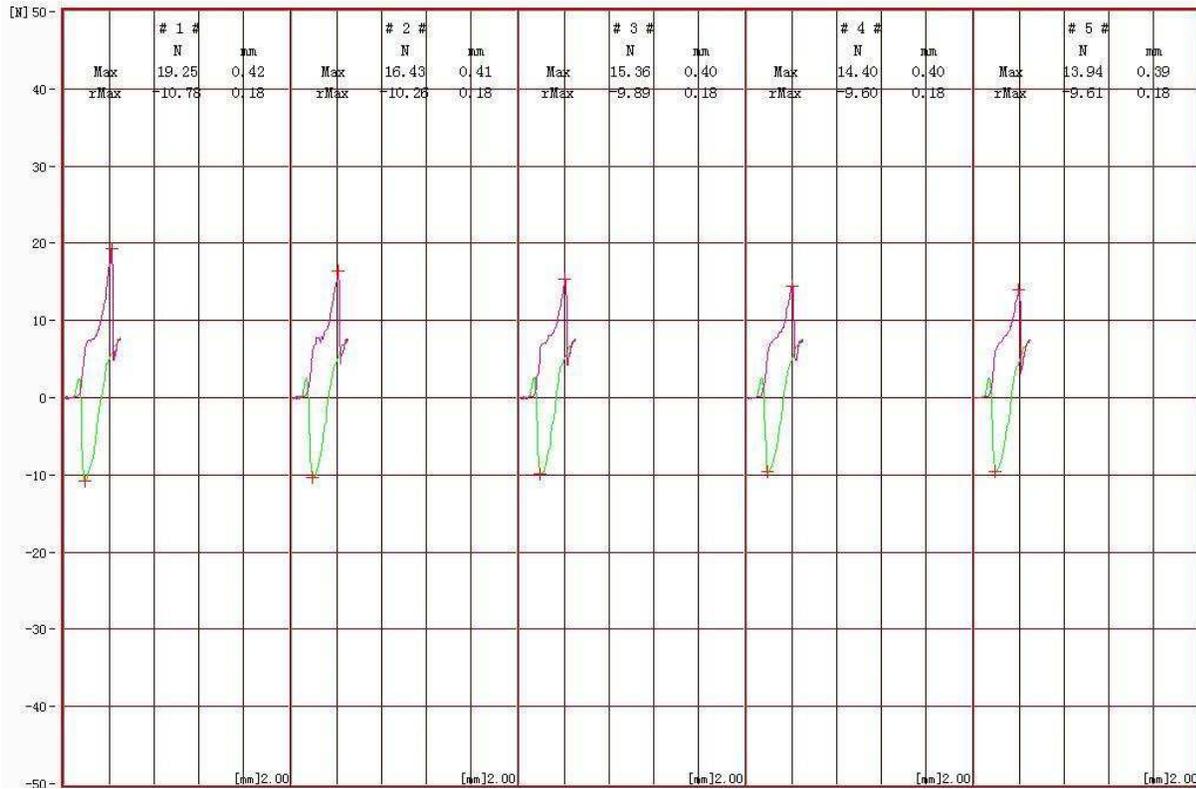
The contact pressure curves for the first 5 cycles:



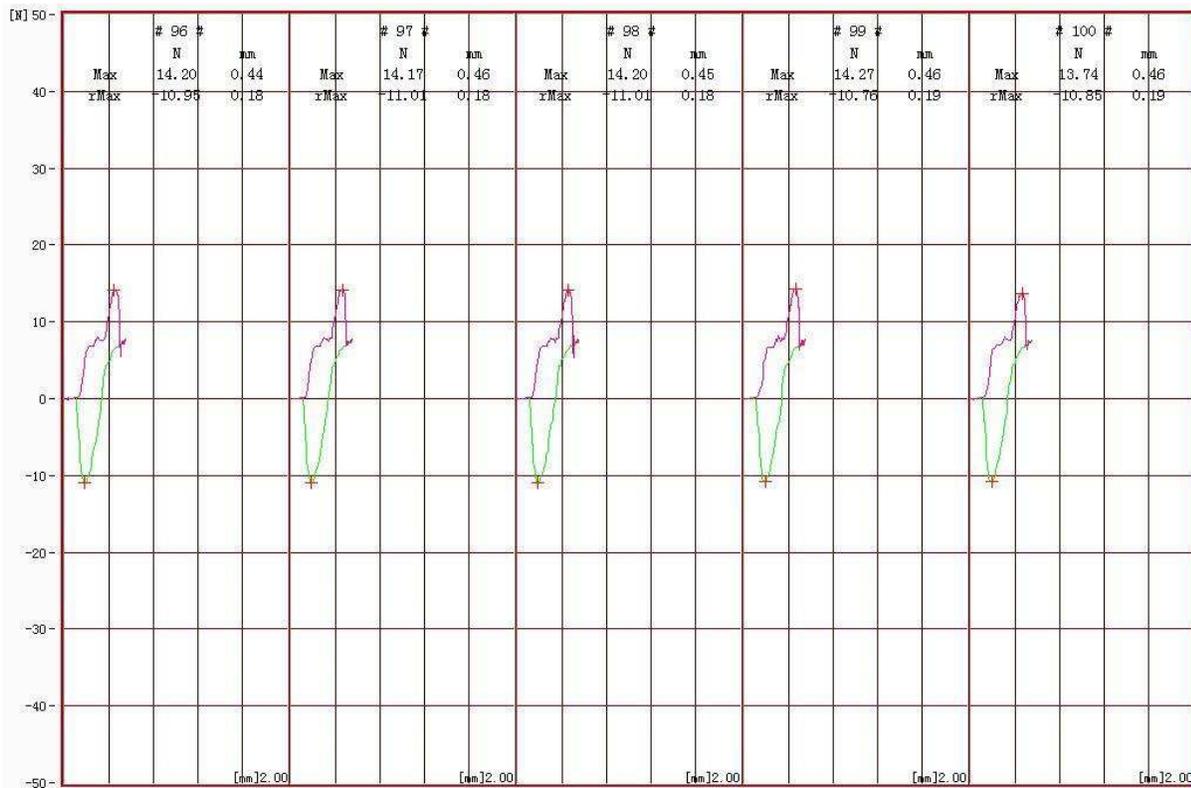
The contact pressure curves for the last 5 cycles:



The engage and disengage force for the first 5 cycles:



The engage and disengage force for the last 5 cycles:



Salt Spray after 48H

48h盐雾OK图片



吃锡OK

