

Shenzhen Lxc Electronics Technology Co ., Ltd

深圳市连兴创电子科技有限公司

APPROVAL SHEET

For

东莞市博贤实业有限公司

转接线 project

Antenna componentst

频率范围 Frequency range	
驻波比系数 VSWR	<3.0
输入阻抗 Input Impedance	50 ± 5 (Ω)
极化方式 Polarization	垂直极化 Vertical Polarization
半功率波束 (3dB) HPW	180° H-plane 120° E-plane

RF by		Checked by	
ME by		Date	
Customer Confirm			

Project:转接线		Author:Wang	File Name: 转接线
Date: 2019-11-27			
TEST:	Language:	Check: Zhong	
A	English		
地址:深圳市龙华新区东环一路柏佳润工业区 3 栋 2 楼 电话: 0755-29195258 传真: 0755-29590286 Shenzhen Lxc Electronics Technology Co ., Ltd			

Revision History

Date	Revision	Description of Changes
2019-11-27	RA	Measured with PCB sample.

1 Technical Summary

This report summarizes the electrical results of the proposed antenna to support the 转接线 program. We test the antenna with the latest version handset. And it seems to be acceptable.

2 General Description

2.1 Components/Part revisions

VSWR: Voltage Standing Wave Rate.

3 Mechanical Description

4 Electrical Performance

4.1 Set-up

4.1.1 VSWR

VSWR measurements (S11) were performed using an Agilent 8753D Network Analyzer and the previously described test fixture. Coaxial chokes were used to mitigate surface currents on the outside of the cabling. The testing was performed in free space.

4.1.2 Gain & Radiation Patterns

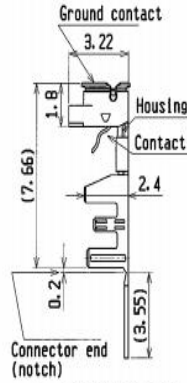
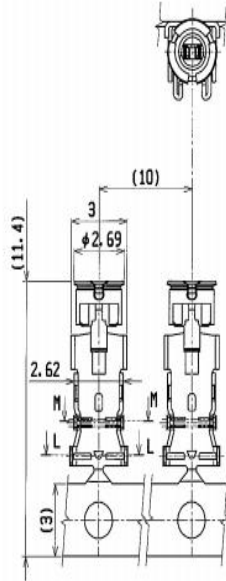
The gain of the antenna was measured in the Lxc's anechoic chamber. Coaxial chokes on the feed cable were used to mitigate surface currents. The chamber provides less than -30 dB reflectivity from 800 MHz through 3 GHz and an 18" diameter spherical quiet zone. The measurement results are calibrated using both dipole and leaky wave horn standards.

4.1.3 Matching Circuit Description

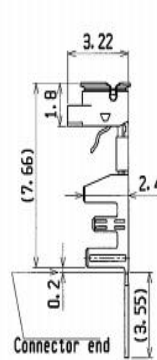
No changed..

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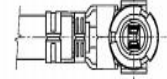
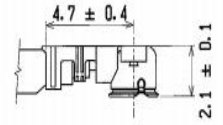
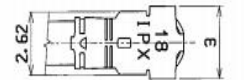
PART NO.
20278-11R-1



Part No. 20278-101R-18
For hand tool
(with notch)

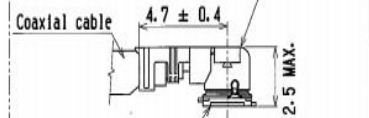


Part No. 20278-111R-18
For semi auto
termination machine
(without notch)



Cable Ass'y

Plug
P/N 20278-101R-18



Receptacle
Part No. 20279-001E-01

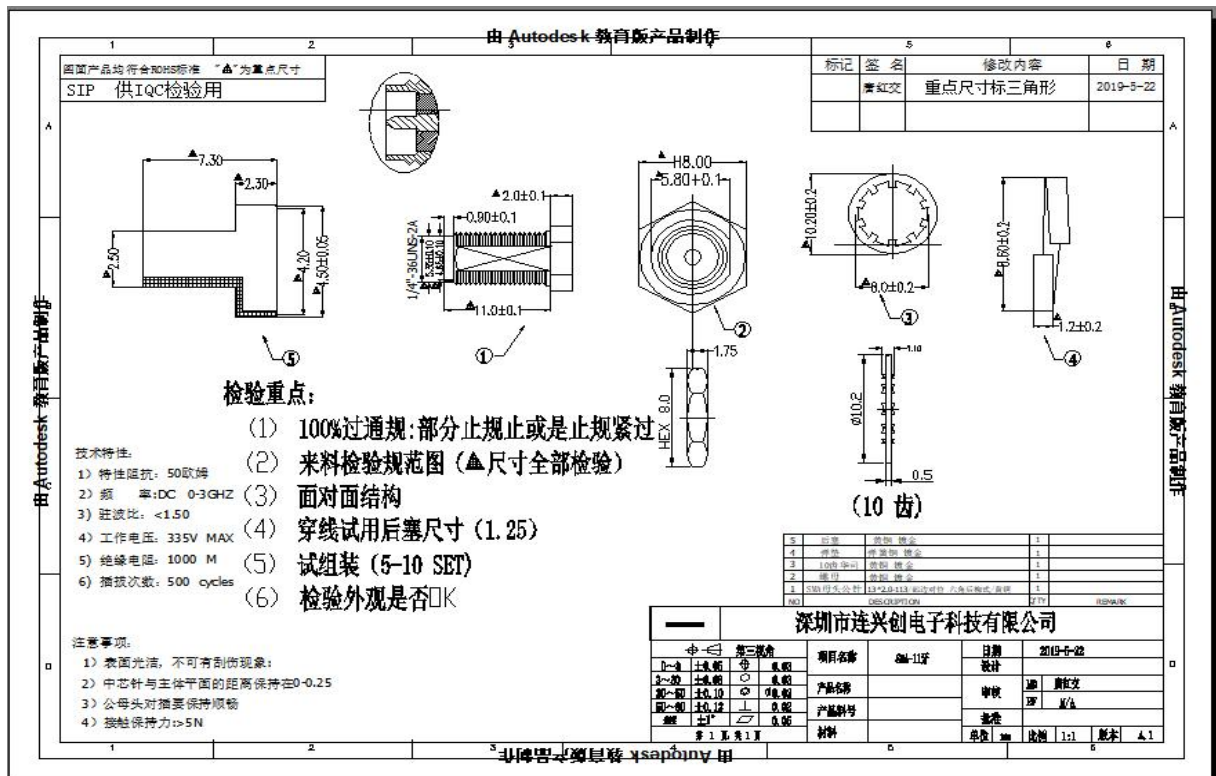
MATING

GENERAL TOLERANCE	
6 MAX.	±0.2
6 OVER MAX. 30	±0.3
30 OVER MAX. 120	±0.5
ANGLE	±2°

DESIGN'D BY		DATE		I-PEX Interconnect and Packaging Electronics TOKYO, JAPAN
CHK'D BY		DATE		
APP'D BY		DATE		
REV. ECN	BY	DATE	APP	TITLE
REV. RECORD				MMF series micro coaxial connector plug vertical (ground contact : gold plating)
SERIES No. 2014		CUSTOMER COPY	PROJECTION 	SCALE UNIT 6/1 mm
			DRG. No. 20278	SHEET REV. 2/4.17C

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4.2.1 Active result



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SFF-50-0.6 (1.13)



型号 Cable Type SFF-50-0.6 (1.13)

结构 Structure		
1	内导体 Inner conductor Ømm	Cu-silverplated 7×0.08±0.008
2	绝缘体 Dielectric Ømm	FEP 0.7±0.05
3	编织层 Braid conductor	Tinned copper 0.92±0.05
4	护套 Jacket Ømm	FEP 1.13±0.08

电性能参数 Electrical Characteristics		
电容 Capacitance(pF/m)		105
阻抗 Impedance(ohm)		50±2.0
速率 Velocity(%)		70
弯曲半径 Bending radius(mm)		12
检验电压 Working voltage (KVMS)		1.0
工作温度范围 Operating Temp. (℃)		-55 to 200

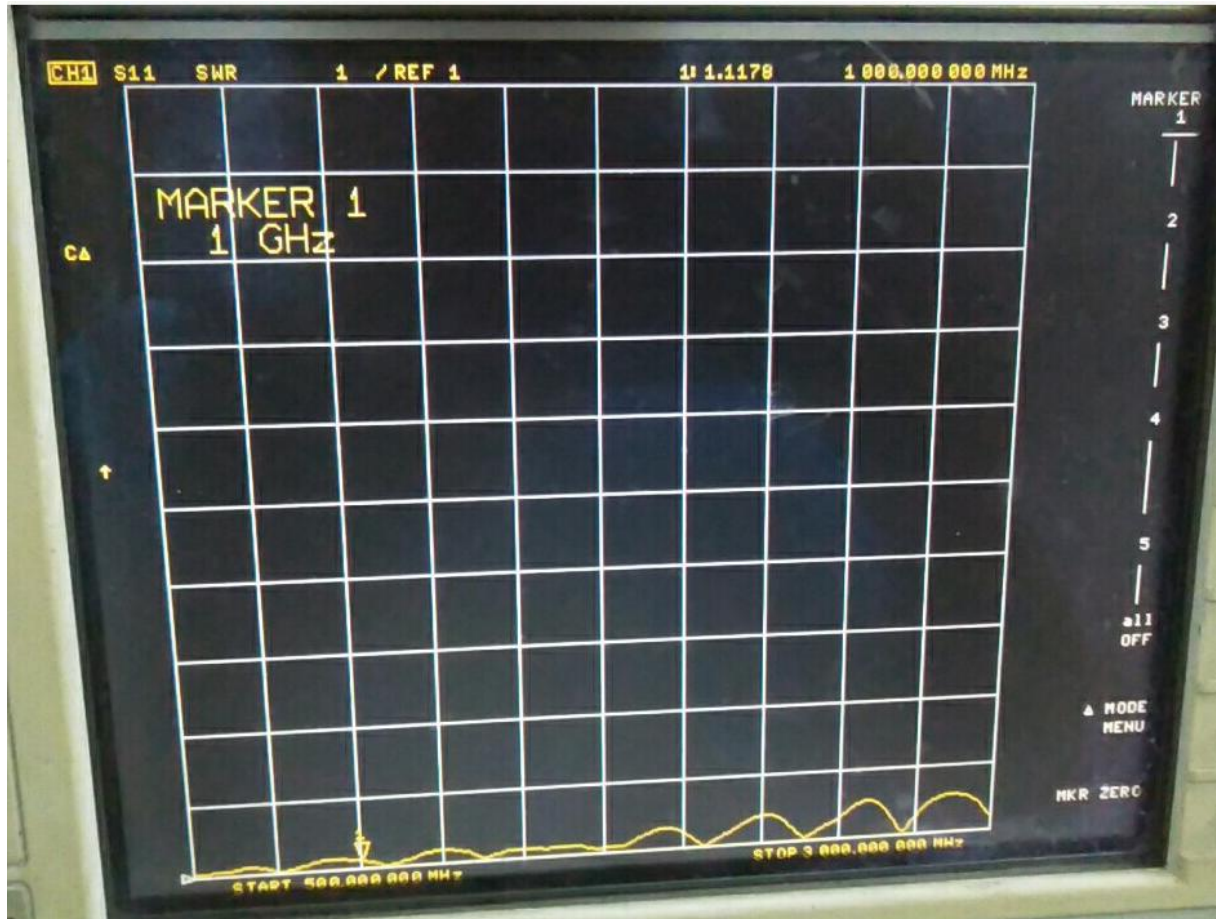
衰减(典型值) Attenuation(Typical)(≧dB/m)		
频率 Frequency		Cable+接头
1 GHz		2.2
2 GHz		3.1
3 GHz		3.9
4 GHz		4.5
5 GHz		5.0
6 GHz		5.5

应用 Application

应用于高频传输，特别是发报机、接收器、电脑、无线电设备、视频信号、射频信号传输。同轴电缆保证各式机械、热力、电子设备中能达到GHz高频层次的应用。

Coaxial cables are used in high frequency transmission, especially for transmitters and receivers, computers, radio and TV transmissions. The varied mechanical, thermal and electronic properties of Coaxial cables mean that they can be used up into the GHz levels, as per cable type.

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1000pF Variable
Packing: 1000pF/Bag

由 Autodesk 教育版产品制作

1. 外形及结构
2. 接触点直径 0.005 英寸
3. 接触点间距 0.005 英寸
4. 接触点间距 0.005 英寸
5. 接触点间距 0.005 英寸

Specifications:
Frequency Range: DC-3GHz
Impedance: 50Ω
VSWR: 2.0 (Max)

由 Autodesk 教育版产品制作

序号	名称	规格	数量	备注
1	接触点	0.005 英寸	1	
2	接触点	0.005 英寸	1	
3	接触点	0.005 英寸	1	
4	接触点	0.005 英寸	1	
5	接触点	0.005 英寸	1	

由 Autodesk 教育版产品制作

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7

Reliability tests

7.1 Test content

No	试验项目	试验方法	判定基准
1	盐水喷雾试验	把盐浓度 5%的溶液喷雾 48HR	不能有变色，歪（变形）脱落等的缺点 腐蚀面积不能过大

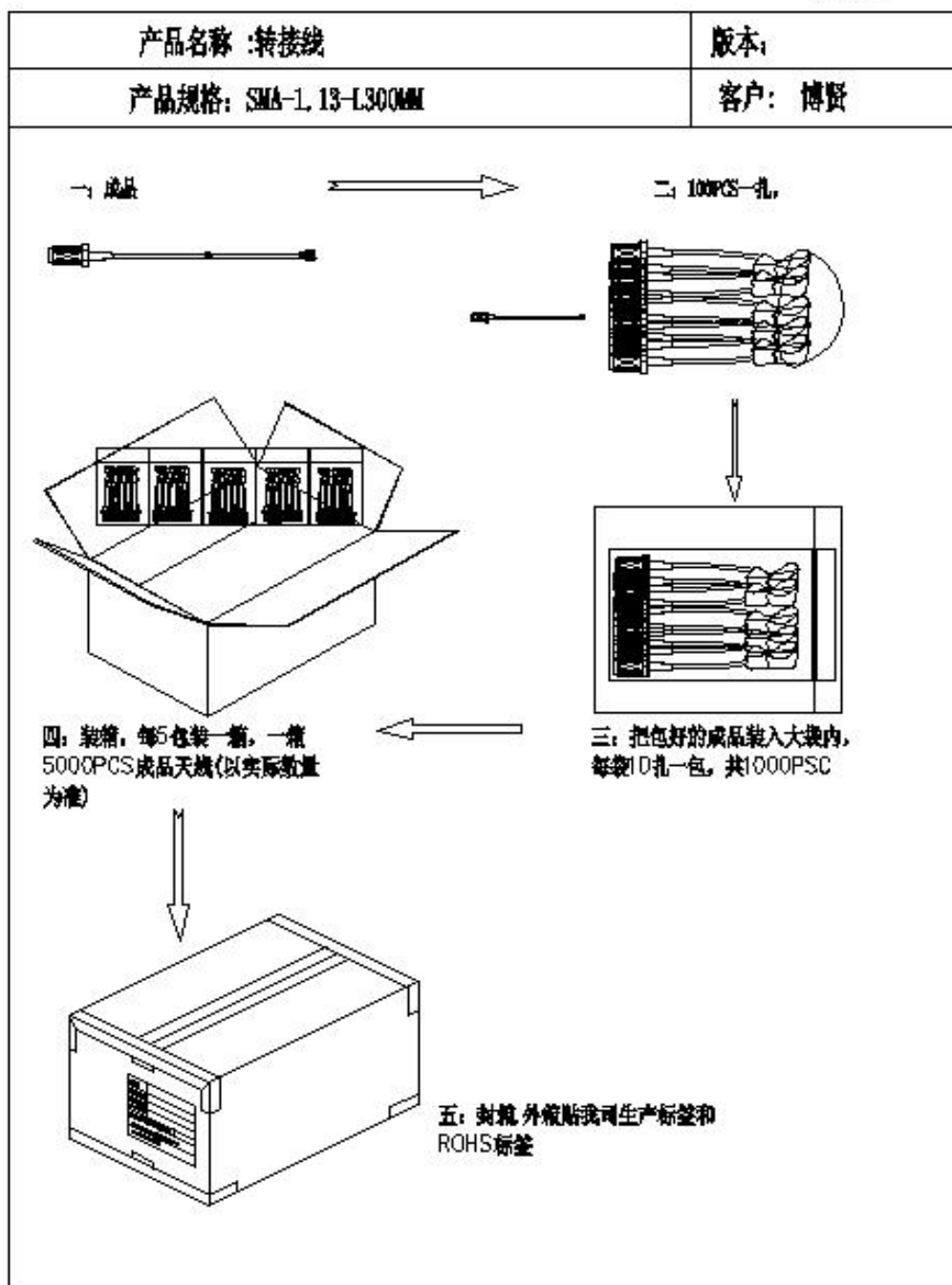
7.2 Test results

NO	样品数	试验期间	实验结果	备注
1	50	24 小时	OK	技术等级为 9 级 腐蚀<0.4mm
2	50	48 小时	OK	技术等级为 9 级 腐蚀<0.4mm

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产品包装规范

page: 1 of 1



批准: _____ 确认: _____ 拟制: 唐红交

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Conclusion

以上数据表明此天线参数均已达标。性能以装机后的实际使用效果为准。

From the above test results, we can know the electrical performance of the antenna is seems good.

Shenzhen Lxc Electronics Technology Co ., Ltd ,look forward to your confirmation, thank you for your cooperation !



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