

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

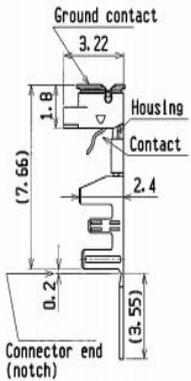
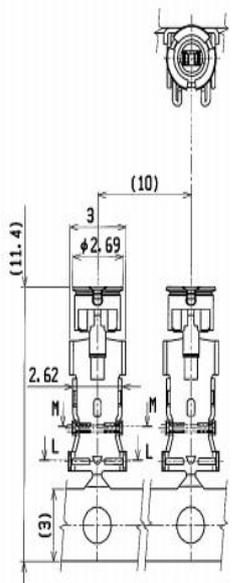
The gain of the antenna was measured in the Lxc's anechoic chamber. Coaxial chokes on the feed cable were used to mitigate surface currents. The chamber provides less than -30 dB reflectivity from 800 MHz through 3 GHz and an 18" diameter spherical quiet zone. The measurement results are calibrated using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

4.1.3 Matching Circuit Description

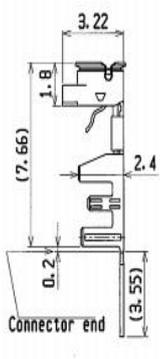
No changed..

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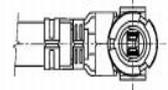
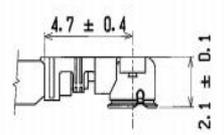
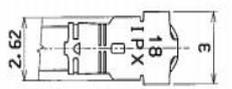
PART NO.
20278-1R-1



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

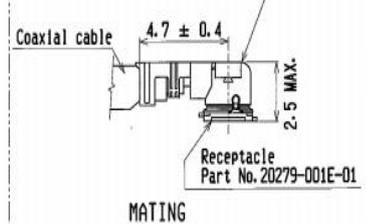


Part No. 20278-111R-18
For semi auto
termination machine
(without notch)



Cable Ass'y

Plug
P/N 20278-1-1R-18



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	 Interconnect and Protection Electronics TOKYO, JAPAN	TITLE							
CHK'D BY	DATE		MF series micro coaxial connector plug vertical (ground contact : gold plating)							
APP'D BY	DATE									
REV. ECN	BY	DATE	APP	CUSTOMER COPY	PROJECTION	SCALE	UNIT	DRG. No.	SHEET	REV.
					6/1	mm		20278	2/4	17C

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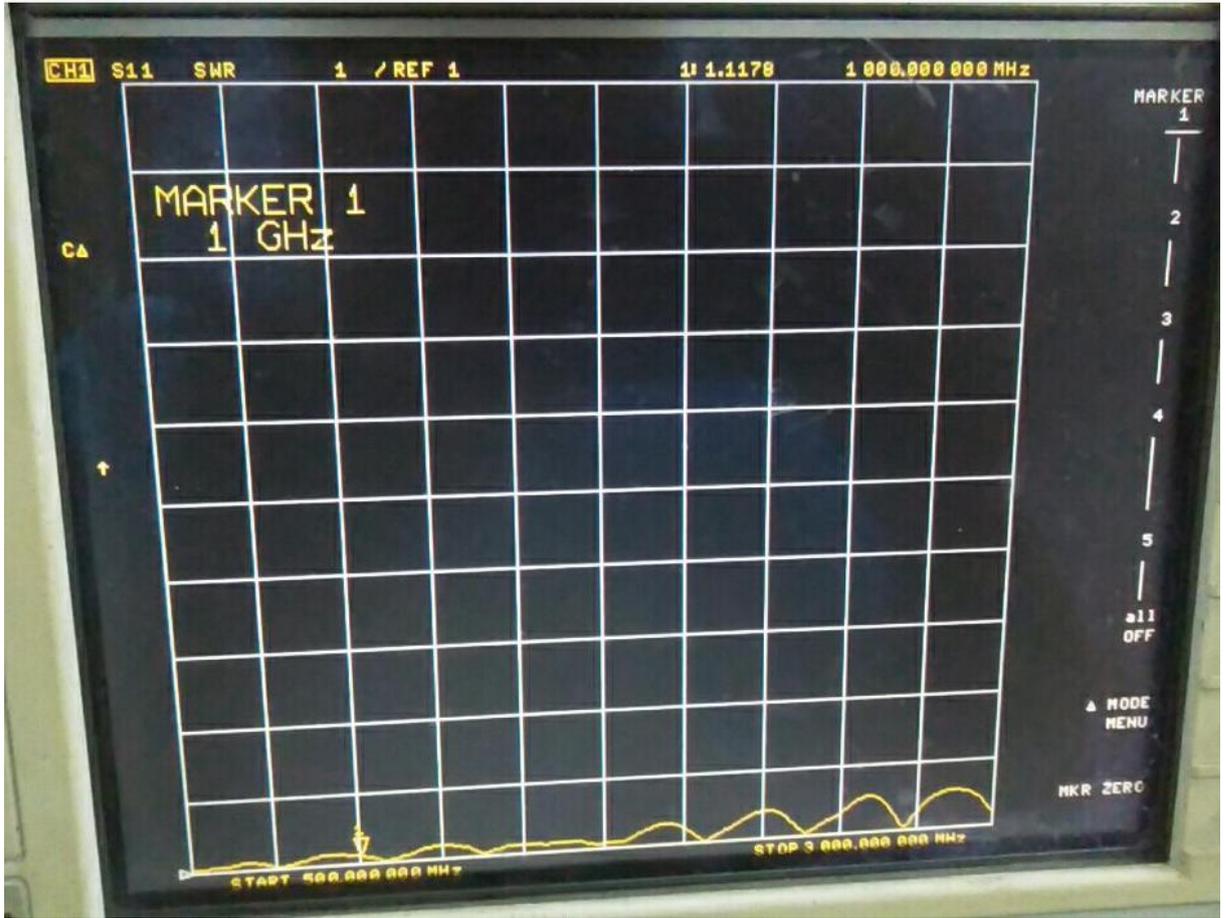


型号 Cable Type	SFF-50-0.6	(1.13)
结构 Structure		
1 内导体 Inner conductor Ømm	Cu-silverplated 7×0.08±0.008	
2 绝缘体 Dielectric Ømm	FEP 0.7±0.05	
3 编织层 Braid conductor	Tinned copper 0.92±0.05	
4 护套 Jacket Ømm	FEP 1.13±0.08	
电性能参数 Electrical Characteristics		
电容 Capacitance(pF/m)	105	
阻抗 Impedance(ohm)	50±2.0	
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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6 Mechanical drawing

用透射波带固定

Specifications:
Frequency Range:DC-3GHz
Impedance:50Ω
VSWR:1.5(Max)

要求:
1.外观无损伤
2.表面须100%测试合格
3.耐高温100℃合格
4.频率范围0-3GHz
5.背波衰减≥20dB
6.其他要求, 参照 GB/T 1587

100pcs/Bundle
Packing: 1000pcs/Bag

标记	签名	修改内容	日期

深圳市连兴创电子科技有限公司																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>项目名称</th> <th>材料</th> <th>日期</th> </tr> </thead> <tbody> <tr> <td>0-2 扣压</td> <td>铜</td> <td>2019-11-27</td> </tr> <tr> <td>3-4 扣压</td> <td>铜</td> <td> </td> </tr> <tr> <td>5-6 扣压</td> <td>铜</td> <td> </td> </tr> <tr> <td>7-8 扣压</td> <td>铜</td> <td> </td> </tr> <tr> <td>9-10 扣压</td> <td>铜</td> <td> </td> </tr> <tr> <td>11-12 扣压</td> <td>铜</td> <td> </td> </tr> </tbody> </table>	项目名称	材料	日期	0-2 扣压	铜	2019-11-27	3-4 扣压	铜		5-6 扣压	铜		7-8 扣压	铜		9-10 扣压	铜		11-12 扣压	铜		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>材料</th> <th>件数</th> <th>单位</th> <th>比例</th> <th>版本</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td>1:1</td> <td>A.1</td> </tr> </tbody> </table>	材料	件数	单位	比例	版本				1:1	A.1					
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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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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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