

# 承认书

## APPROVAL

版本：A1

客 户  
CUSTOMER:

品 名 规 格  
DESCRIPTION: IPEX-2.4G-PCB-1.13 black L150

料 号  
PART NO.:

客 户 料 号  
CUS PART NO.:

日 期  
D A T E : 2012.6-19

### 呈样签章

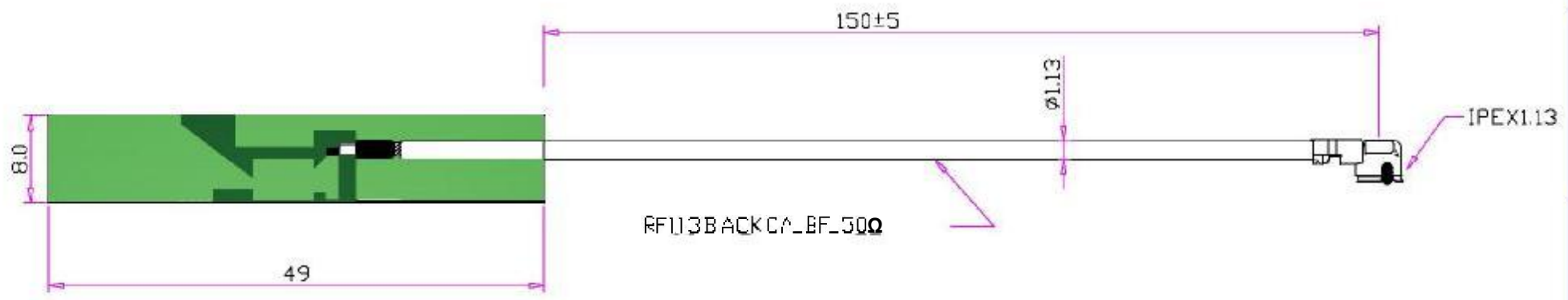
工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	业 务 SALES DEPARTMENT
王维宾	田海容	彭红艳

### 客户承认签章

工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	采 购 PURCHASING DEPARTMENT

RoHS Compliant

REV	DATE	DESCRIPTION	NAME
A1			
A2			



备注：  
 1.橡胶外套不可有刮伤不良现象  
 2.接头电镀良好，产品导通OK  
 3.未标注尺寸以正负0.3为准

FREQUENCY RANGE	2400-2500 MHZ
Gain	1.5dBi
SWR	<1.92
Polarization	Linear.Vertical
Impedance	50 OHM

深圳市禾锐尔科技有限公司  
 Shenzhen Hurryup Technology Co., Ltd

NO.	NAME	Description	Q' TY	Part No.
4				
3	线材	OD1.13 COLOR:black	1	1301-0010
2	pcb	49*8.0*0.4	1	1201-0022
1	IPEX	IPEX-1.13-GOLD	1	1101-0050

一般公差	圖法
0-1 ±0.1	
1-10 ±0.3	
11-30 ±0.5	
31-100 ±0.8	
101-300 ±1.0	
301~ ±2.0	ANGULAR ±1°

品名规格 (PRODUCT NAME)		IPEX-2.4G-PCB-L150	
料号 (PART NAME)		F030-000X	
客户料号 (CUS PART NAME)			
绘图 (DRAW)	NELR	版本 (REV)	A1
审核 (CHECK)	CHEM	日期 (DATE)	2012-6-19
核准 (APP.)	JERL R	页码 (PAGE)	1/1

Image:



## Specification:

电性能指标		Electrical Specifications	
频率范围	2400-2500MHZ	Frequency Range	2400-2500MHZ
电压驻波比	≤2.0	VSWR	≤2.0
输入阻抗	50 Ω	Input Impedance	50 Ω
机械指标		Mechanical Specifications	
天线颜色	黑色	Antenna Color	BLACK
接口形式	IPEX1.13	Input connector	IPEX1.13
天线长度	150mm	Cable length	150mm
工作温度	-40℃~+85℃	Working Temperature	-40℃~+85℃
工作湿度	20~80%	Working Humidity	20~80%

IPEX 端子 :

# Material Data Sheet

## MHF Connector

**Cable Assy**

Plus  
P/N 20278-11R-08  
P/N 20278-11R-13  
P/N 20278-11R-32

**Coaxial cable**

Receptacle  
Part No. 20279-001E-01  
20441-001E-01

**MATING**

REV. 2016: K.O. 30/04/16 EK  
18C 207346 K.O. 10/10/08 E.K.  
17C 205239 K.O. 05/18/05 T.H.  
15C 205324 K.O. 10/20/05 T.H.  
15C 204398 K.O. 03/12/04 T.H.

DESIGNED BY: K. Ohbayashi  
CHK'D BY: T.H.  
APP'D BY: K. KatabuchiCUSTOMER COPY

DATE: JUN/13/01  
DATE: JUN/13/01  
DATE: JUN/13/01  
DATE: JUN/13/01

PROJECTION: 1st ANGLE  
SCALE: UNIT: DIM. No. 20278  
SHEET: 1/4  
REV. 19C

TITLE: I-PEX  
Address: Interconnect and Precision Electronics TOKYO, JAPAN

General

MHF series micro coaxial connector plus shield (ground contact: shield plate)

General

SCALE: UNIT: DIM. No. 20278  
SHEET: 1/4  
REV. 19C

Part No. 20278-101R-08  
20278-102R-08  
20278-101R-13  
20278-102R-13  
20278-101R-32  
20278-102R-32

For hand tool (with notch)

Part No. 20278-111R-08  
20278-112R-08  
20278-111R-13  
20278-112R-13  
20278-111R-32  
20278-112R-32

For seal auto termination machine (without notch)

**GENERAL TOLERANCE**

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

PART NO. 20278-...R-...  
FORM REV. 4





## RG-113结构参数:

### 1. Scope

This specification covers FEP insulated High-Frequency coaxial cable for internal wiring of electronic equipment.

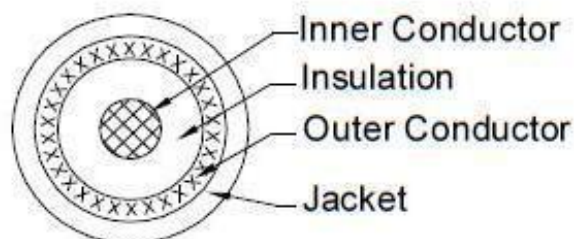
USE: Internal wiring of Class 2 Circuits of Electronic Equipment.

### 2. Construction :

	Item	Unit	Spec. Value
Inner Conductor	Material	--	Silver plated copper
	construction	No./mm	7/0.08
	Dia.(approx)	mm	0.24
Insulation	Material	--	FEP
	Nom. Thickness	mm	0.22
	Dia.(approx)	mm	0.68±0.05
	Color	--	Natural
Outer Conductor	Type	--	Braid
	Material	--	Silver plated copper
	Coverage	%	>93
	Dia.(approx)	mm	0.93
Jacket	Material	--	PFA
	Nom. Thickness	mm	0.10
	Color	--	BLACK
	Dia	mm	1.13 +0.10/-0.05

### 3. Characteristics :

Test Item	Unit	Specified Value	Note
Appearance	-	Faultless in visible	-
Rating voltage	V	250	-
Inner conductor resistance(at 20℃)	$\Omega$ /km	Max. 597	At 20℃
Insulation resistance 1> (at 20℃)	M $\Omega$ -km	Min. 1500	At 20℃
Dielectric strength		No breakdown at AC 1.5kV for 1min	Outer conductor to inner conductor
Capacitance	pF/m	Nom.98	At 1KHz
Characteristic impedance (at D-TDR)	$\Omega$	50±2	TDR method
Attenuation(Non Connect)	dB/m	2.1	1.0GHz
		2.9	2.0GHz
		3.6	3.0GHz
		4.2	4.0GHz
		4.7	5.0GHz
		5.2	6.0GHz



Cross-section of cable

### 4. Packing

Upon your request.