BAT WIRELESS

DATASHEET

IPEX Antenna Connector

Model No:

BWIPX-5-001E

Description:

IPEX-5 Board-End Connector

Features：

0-6000MHz

IPEX-5 male

Size: 1.7mm x 1.7mm x 0.6mm

RoHS & REACH Complaint

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CONTENTS

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BWIPX-5-001E

Part Number Description

BW	Company	BAT WIRELESS
IPX	Name	IPEX connector
-	Constant	Constant
5	Generation	Fifth generation
-	Constant	Constant
001	Number	001
E	Type	Board-End connector

1. Description

Bat Wireless BWIPX-5-001E is an ultra-small RF coaxial connector with a frequency range of 0~6 GHz, suitable for mainstream wireless communication frequency bands, such as Wi-Fi,Connection of Bluetooth, GPS, 4G/5G antenna and other modules. Use a super-small design and small size suitable for high-density PCB layouts. The interface type is a male terminal, with a central pin terminal.Usually soldered on the PCB and used with the female head. Low loss design, optimized process and coaxial structure to ensure low interpolation loss for signal transmission.

Typical Applications:

Wireless module: Wi-Fi, Blue Tooth module, cellular module

Antenna connection: PCB antenna, external FPC,rubber antenna

Consumer electronics: notebooks, tablets, smart home devices

Bat Wireless provides customized services to optimize your device, we have a mature R&D team that can respond quickly to meet your needs. If you have any requirements, please contact our sales and FAE.

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2. Specification

Parameters	Typ.	Unites	Notes
Electrical Characteristics			
Antenna Type	IPEX Antenna Connector		
Frequency Range	0-6000	MHz	
Input Impendence	50	Ω	
Contact resistance	-	mΩ	
Insulation resistance	500	MΩ	
Insert Loss	0.15	dB(6GHz)	
RF leakage	200	V	
Durability	500	Times	
PLUG / JACK	-	mm	
DC Voltage	-	V	
Mechanical Characteristics			
Dimensions	1 . 7 x 1 . 7 x 0 . 6	mm	
Connector Type	Jack		
Cable Type	-		
Cable Length	-	mm	
Mount way	SMD		
Color	Gold		
Meterial	Gold-Plated Brass		
Weight	0.04	g	
Environmental Characteristics			
Waterproof Rating	-		
ROHS Complaint	Yes		
Operating Temperature	-45~ +85	℃	
Storage Temperature	-45~ +85	℃	

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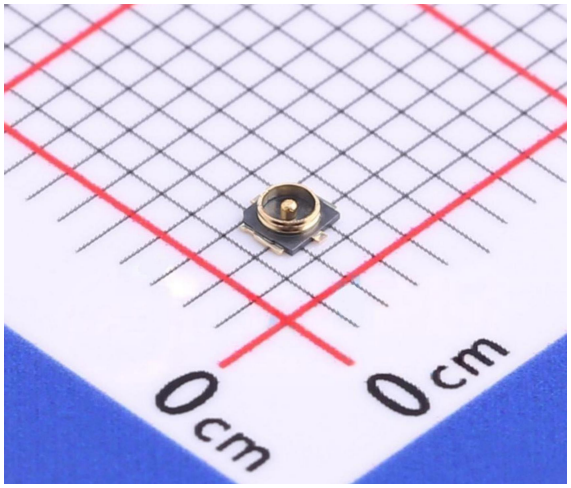
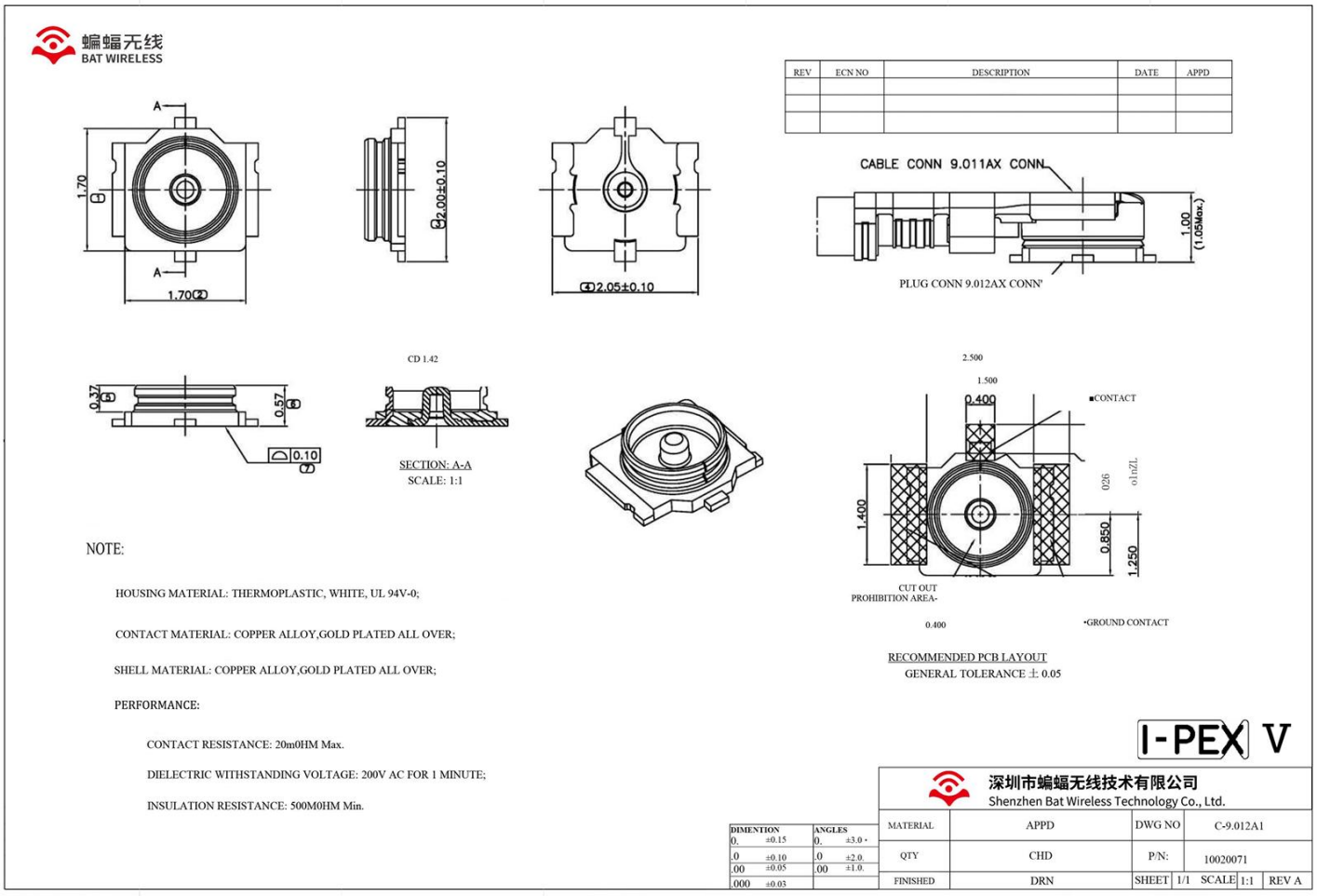
3 . Demensions

3.1 Actual Picture



3.2 Parts Drawing



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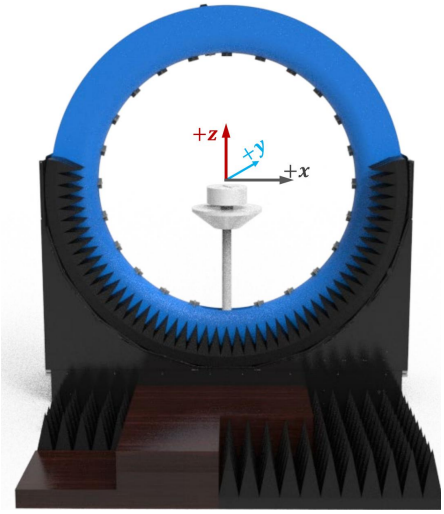
4 . Test Equipment

Keysight/E5071C Network Analyzer

R&S/CMW500 Comprehensive tester

R&S/SMBV100B Signal Source



DT-3500 Datasheet / System Specifications	
Specification:	**Description**
Test Frequency :	400MHz-8.5GHz
System Size :	L*W*H=4*3.5*3.5m
Number of Probes :	23 (Probe) + 1 (link)
Interval Angle :	15º
Sampling Diameter :	2200mm
Carring Capacity :	≦40kg

Testing Capability	Description
Active measurement	**Capability :** TRP、TIS、EIRP、EIS,. etc **Mode :** 2G/3G/4G/5G、Wi-Fi b/g/n/a/ac/ax、BT、NB-IOT、Cat-M (eMTC)、GPS/BEIDOU/GLONASS、ZigBee、LoRa(Non-Signaling),.etc
Pasive measurement	**Test category :** Gain、Efficiency、2D pattern、3D pattern、Pattern roundness、Axial Ratio, ECC,Phase center,. etc **Polarization :** Circular polarization, linear polarization, elliptical polarization

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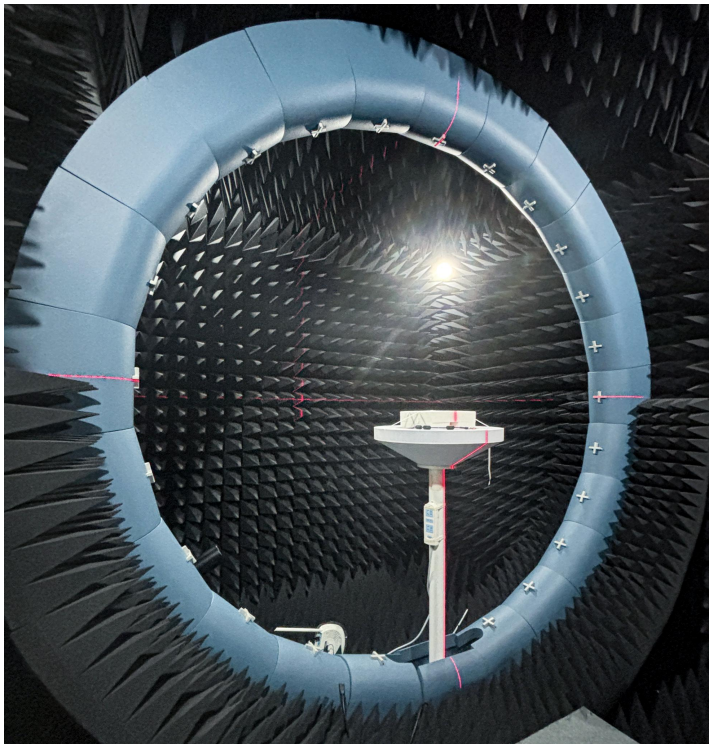
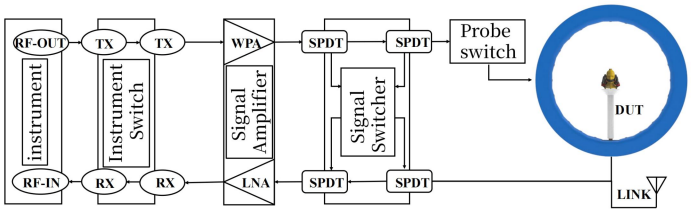
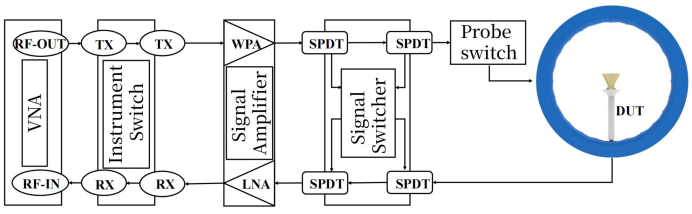


RF Link diaram of multi probe spherical near-field testing system

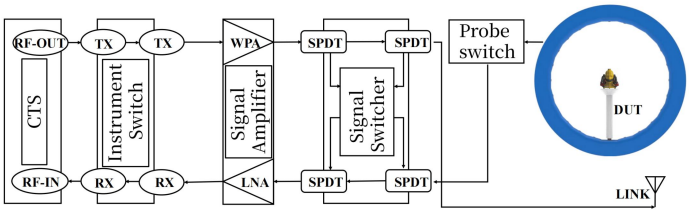
RF Link Overview



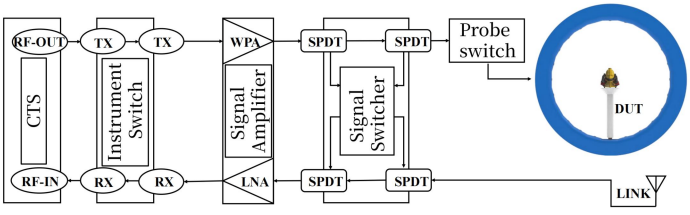
RF Link of Passivemeasurement



RF Link Overview



RF Link of Passivemeasurement



DECLARATION:

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Documentation

Version:	Aug-21-2025-A01
Date:	2025-08-21
Note:	First released
Author:	Carly / Lisa

Change Log