



深圳市明宇星电子科技有限公司

SHENZHEN SUNBRIGHT TECHNOLOGY CO., LTD.

APPROVAL SHEET

Product Name: 125KHz LF Antenna

Specification: A70.5x13.5x7mm/125K, 150mm 22#3266 B/W

Part N. O: LF50M351J-125K-AC

Customer Name: BAO CHE SHI

Version : VR0

Date : 2023-02-06

APPROVED BY VENDOR

Prepared By	Checked By	Approved By
Yang		

APPROVED BY CUSTOMER

Approved By	Checked By	Approved By



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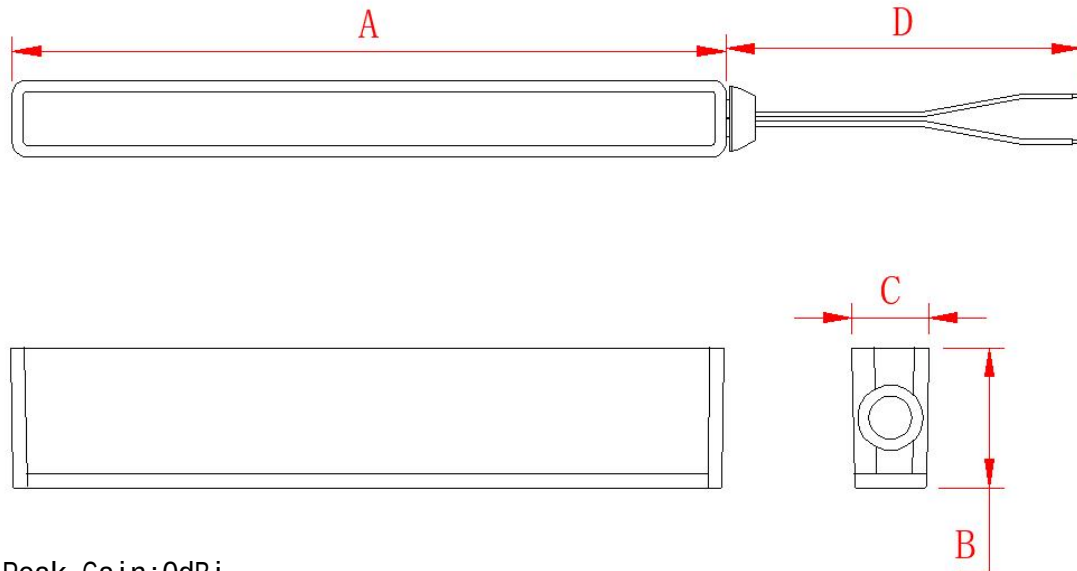
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Change the resume

Version	Description	Eng.	Date
VR0	Initial Issue	Yang	2023-02-06

一、Production Dimension(mm):

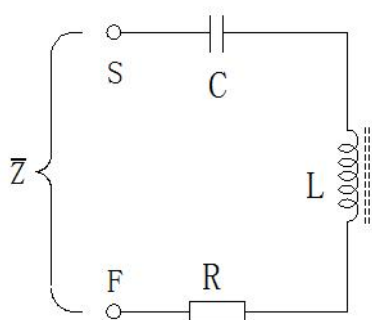
125K Antenna



Peak Gain:0dBi

A	B	C	D	Unit
70.5±0.5	13.5±0.3	7±0.2	150±10	mm

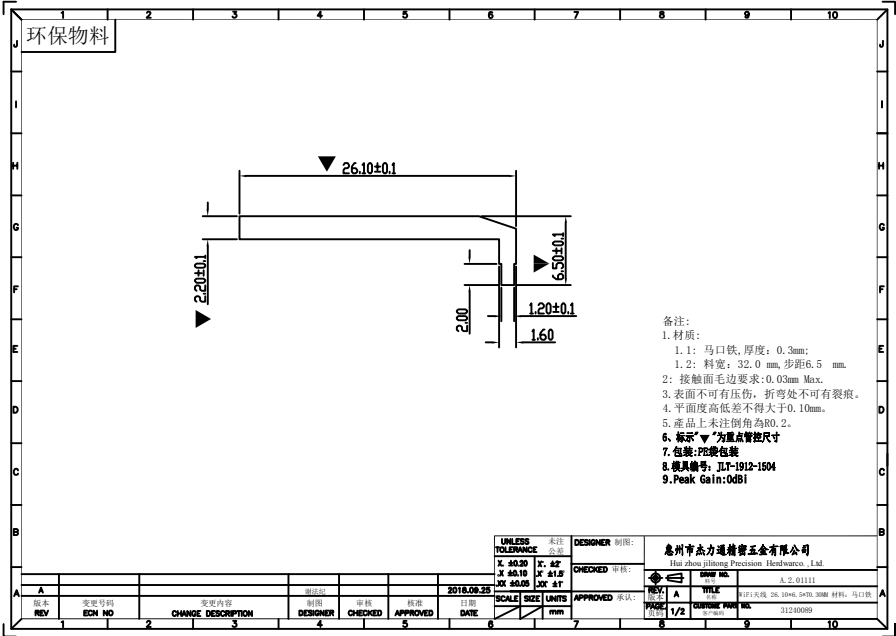
二、Schematic:



Notes:

1. L :Ferrite Core Coil Inductance.
2. C:Capacitor.
3. R:Copper Resistance.
4. Z:Impedance.

2.4GWIFI Antenna





三、Electrical Characteristics:

Parameter	Symbol	Conditions	Min.	Avg.	Max.	Unit
Inductance	L	125KHz/1V	328	345	362	uH
Q min Coil★	Q	125KHz/1V	150	185	220	NA
Capacitor	C	1KHz/0.25V	4.465	4.7	4.935	nF
Frequency★	F	NA	123.5	125	126.5	KHz
Impedance★	Z	125KHz/1V	0.5	4.0	10.0	Ω

Note: (★) Critical Characteristics.

(At TA=25°C) Test at 25 degrees.

Metal will weaken the magnetic field and cause changes in inductance and Q value. Keep away from metal when using.

四、Main Material:

Item	Material	Description	Remark
1	Ferrite Core	AP2.5x8x50mm/HD-Mn	
2	Copper Wire	Φ0.25mm/2UE-N/155℃	
3	Capacitor	CBB 472J630V P7.5	
4	Epoxy	901A/B=10:1/Black	
5	Wire	150mm 22#3266 Black/White	
6	Box	7x13.5x70.5m/PC/Black	



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五、Package:

1、Inner box packaging: to be determined

2、Outer box packing (outer box K=A440*320*150mm)

Quantity: to be determined