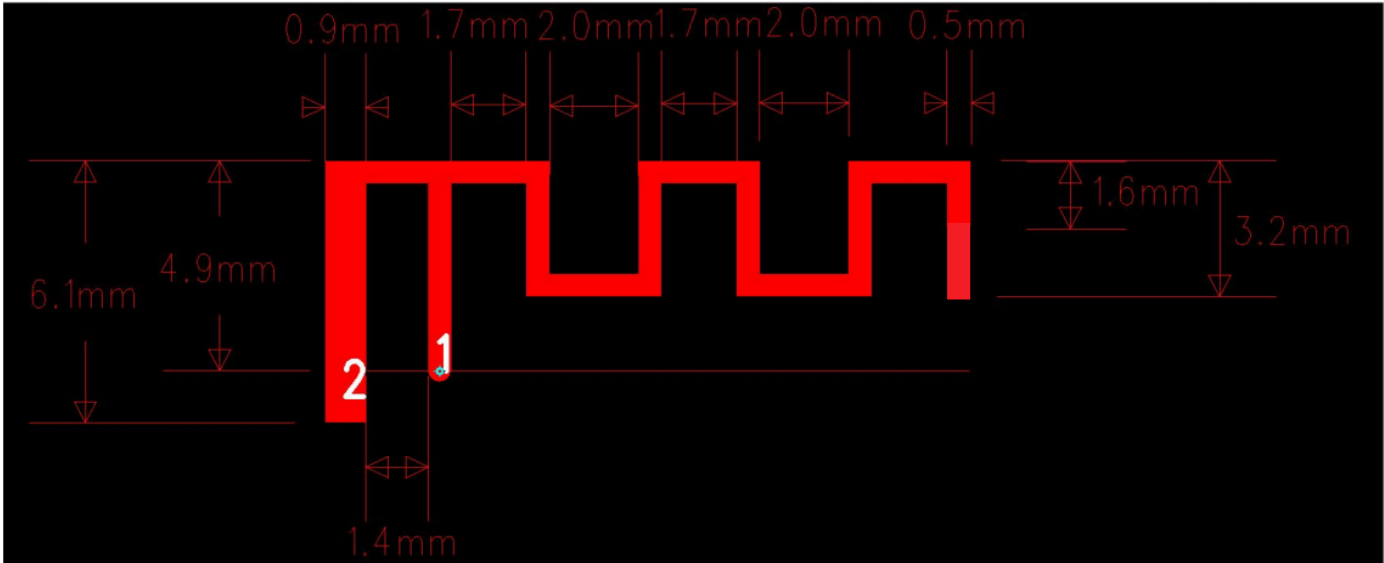


2.4G-2.48G Inverted F Antenna Specification

SPECIFICATIONS	
Frequency (MHz)	2400-2480
Peak Gain (dBi)	2.499
Average Gain (dBi)	>-4
VSWR	<3.2
Impedance (Ω)	50Ω
Antenna Type	Plannar Inverted F Antenna on board
Polarization	Linear
Manufacture	ZHUHAI JIELI TECHNOLOGY CO.,LTD
Address	No.333 Kexing Road, Nanping Science Park, Xiangzhou District, Zhuhai
Model	HWA-TECH

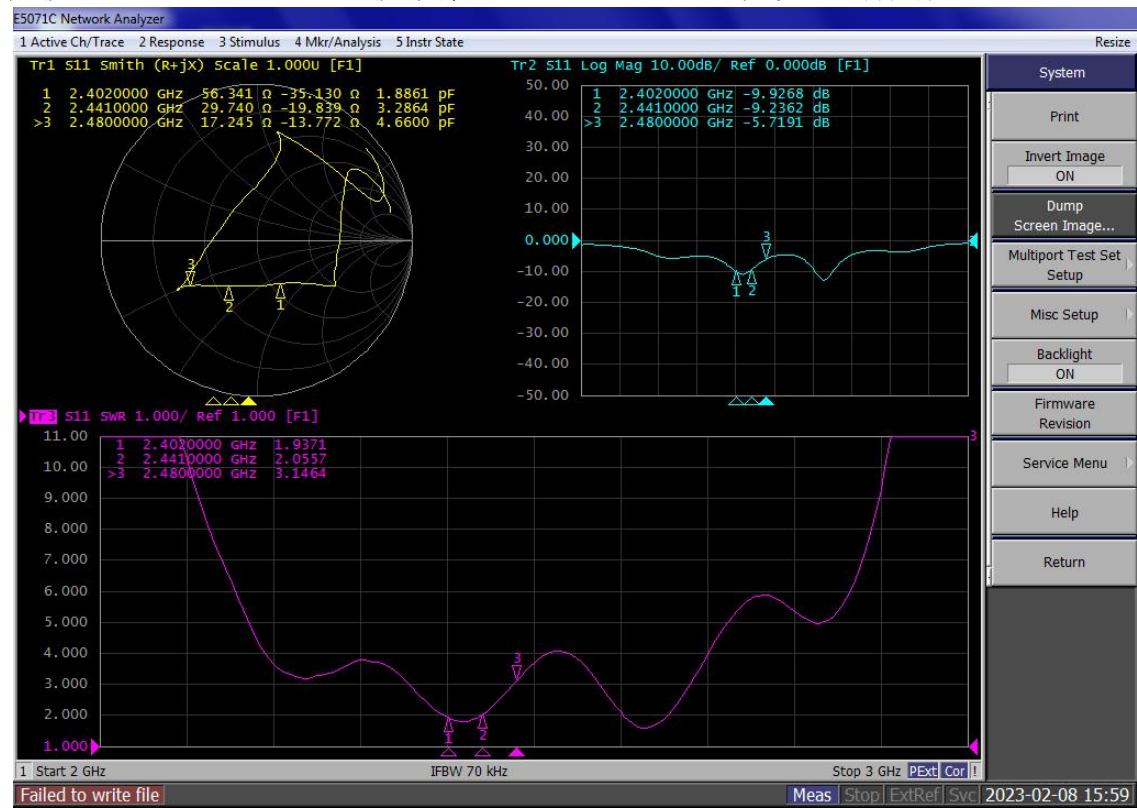
Antenna Photo & Length (mm)



天线无源 S 参数:

Antenna passive S-parameters:

驻波比 (VSWR)、回波损耗 (Return Loss) 及史密斯圆图 (Smith)

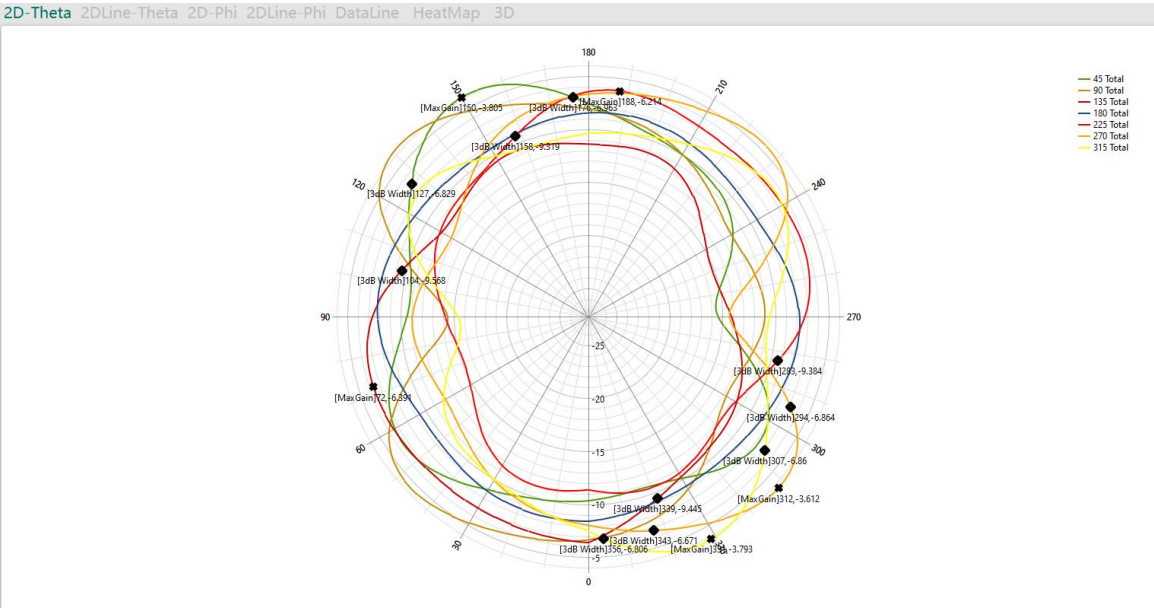


天线效率及增益:

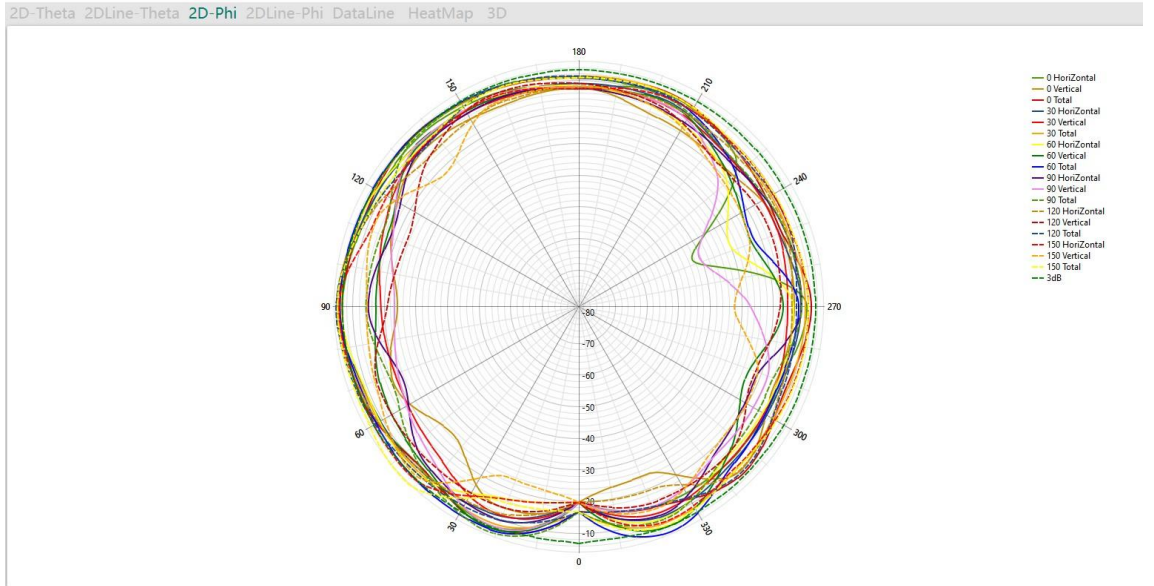
Antenna efficiency and gain:

Frequency (MHz)	Gain (dBi)	Effciency (%)	AverageGain (dBi)	Efficiency (dB)
2400	1.433	59.329%	-2.717	-2.267
2410	0.927	51.861%	-3.416	-2.852
2420	0.829	52.112%	-3.166	-2.831
2430	0.881	49.299%	-3.258	-3.072
2440	1.192	50.672%	-3.144	-2.952
2450	1.688	53.067%	-2.735	-2.752
2460	2.194	59.423%	-2.276	-2.260
2470	2.118	56.680%	-2.438	-2.466
2480	2.499	61.727%	-2.112	-2.095
Average	1.529	54.908%	-2.806	-2.616
Peak	2.499	61.727%	-2.112	-2.095

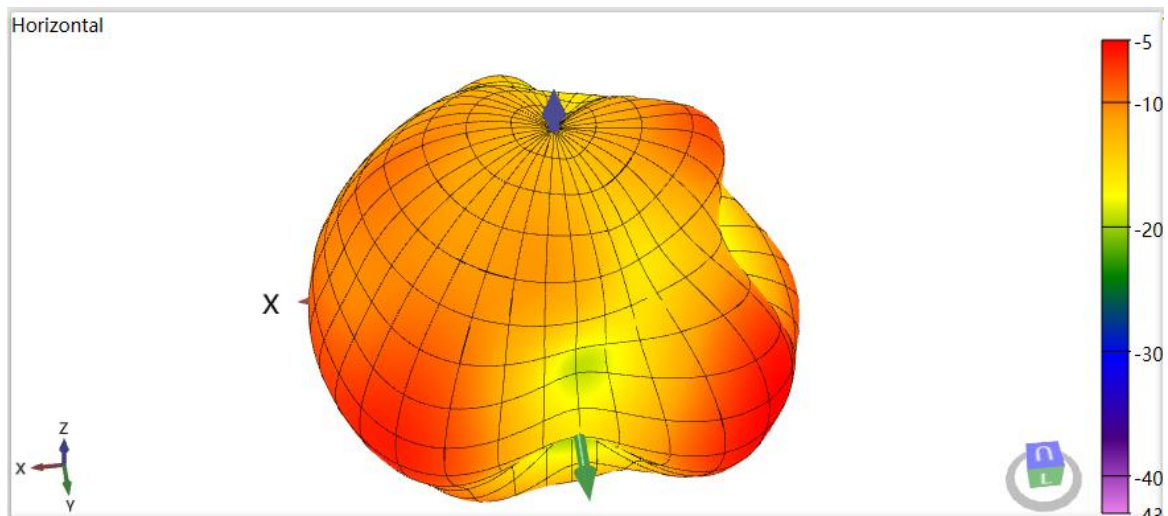
天线 2440MHz 2D-Theta Pattern



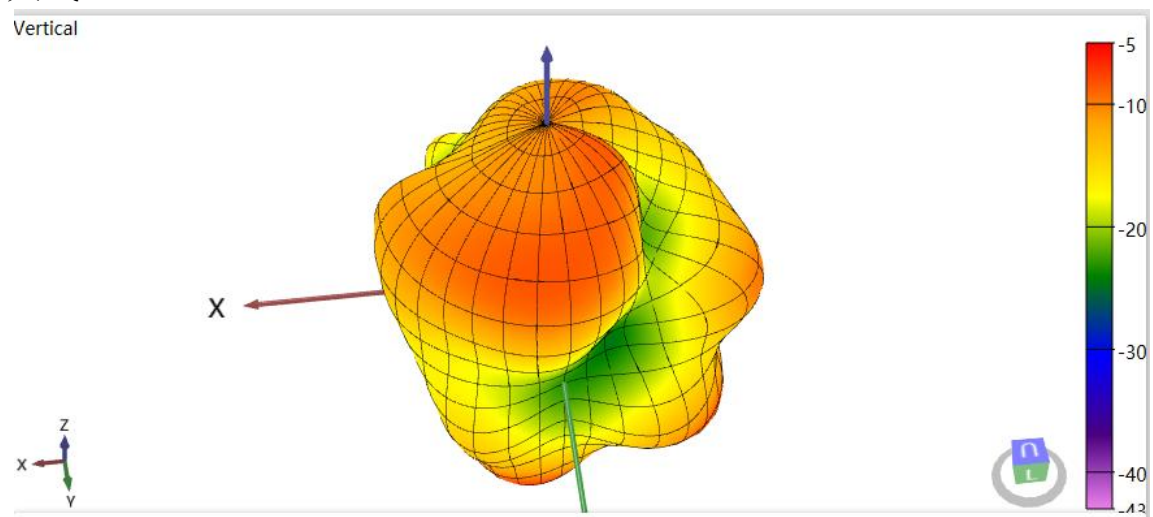
天线 2440MHz 2D-Phi Pattern



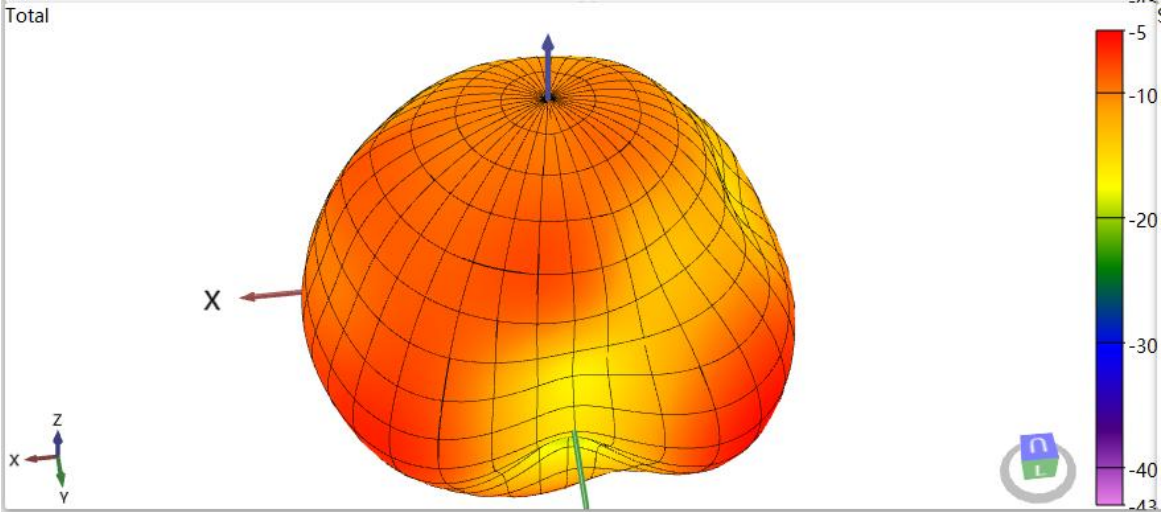
天线 2440MHz 3D-Horizontal Pattern



天线 2440MHz 3D-Vertical Pattern



2440MHz 3D-Total Pattern





深圳市深广电子科技有限公司

Shenzhen Shenguang Electronic Technology Co., LTD

客户/Client	深圳市硕宇科技有限公司
名称/TYPE	A11-43.5 单线圈 背胶线长 50MM
产品型号	
Model NO	SG-A1143.5-6.5UH-050
产品编号	
Part numbering systey	
客户料号	DZQT00069A0
Client p/NO	
工程编号	
Enginrer NO	TQE 1800510003
日期/Date	2024-6-14

We statement that all measurements were performed radiated and therefore additional antenna gain documentation is not required.

Shenzhen Shenguang Electronic Technology Co., LTD

Address: Factory 401, No. 1165 Guanlan Road, Guihua Community,
Guanlan Street, Longhua District, Shenzhen, China



深圳市深广电子科技有限公司

Shenzhen Shenguang Electronic Technology Co., LTD

一、线圈工艺/Winding Process:

NO	绕组	线规	匝数	绕线方向	备注
1	N1	2UEW-B-0.08*105P	10TS	CCW	
2					

二. 电气性能/FEATURES:

1.测试条件 (Test conditions): 25°C,65%RH@100KHz/1V

1.1 电感量 (Inductance)

1.11 L0A (单独线圈) =3.8uH±20%

1.12 L0A(线圈+磁片)=6.5uH±10%

1.2 Q 值=70MIN

1.3 直流电阻(DCR): 55mΩ MAX

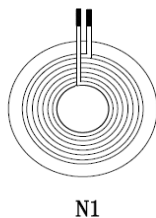
1.4 工作温度(Operating Temperature): -25°C~85°C

2.测试仪器(Test instrument): **L:**创达 1068+1310;**DCR:**502BC;**SIZE:**Callipers

3.材料清单

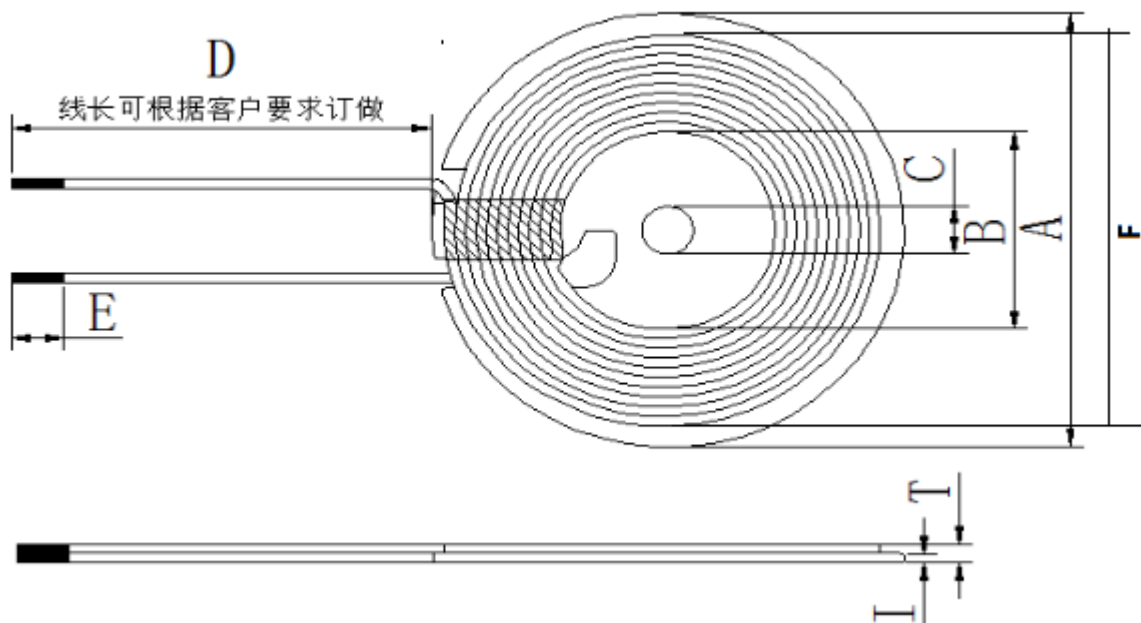
NO	项目	材料
1	WIRE	φ 0.08*105P 2UEW
2	FERRITE	43.5*5.3*0.8 L 双槽 铁氧体硬磁
3	GLUE	白胶
4	SOLDER	XCD-907B
5	Adhesive	双面背胶
6	High temperature adhesive	6MM(Ref)高温胶带
7		

三. 电路图/CIRCUIT DIAGRAM



单位: MM

四. 外形图/OUTSIDE DIAGRA



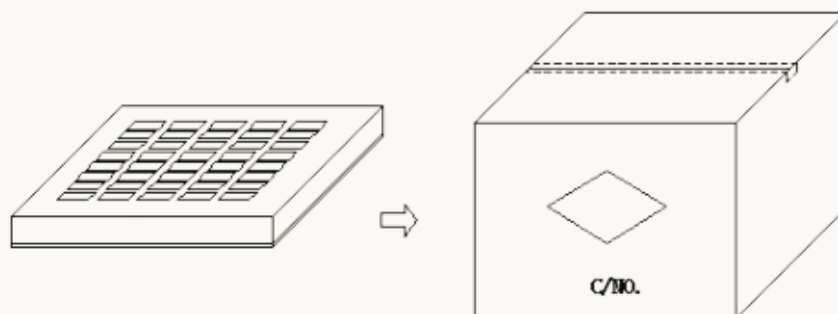
注: 线圈出线位置缠绕 6MM (ref) 高温胶纸

标准	A	B	C	D	E	F	I	T
STD	43.5±0.5	20.5±1.2	5.3±0.5	50±2	2-5	42±1.2	0.8±0.1	2.6Max

Unit: mm

五. 包装/PACKAGE

5.1 包装图片 Packing pictures:



5.2 包装数量及规格 Packing Quantity:

项目 Item	数量 Quantity	材料规格 Material
盒 Box	350 Pcs	345*330*50 mm
箱 Big Carton	1400 Pcs	360*340*280 mm

5.3 包装以现有包装盘为参照标准，以实际出货包装为准，如有特要求可以定制。

The packaging shall be based on the existing packing plate and the actual delivery package shall prevail. If there is any requirement, we can customize it.



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六、贮存和使用条件 Storage and Use condition

6.1 贮存条件 Storage condition

6.1.1 建议贮存条件：温度 $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ ，湿度 70% (Max.)

Recommended keeping conditions: $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$, 70%RH (Max.)

6.1.2 贮存期限：自生产之日起六个月内

Storage life : Within the limits of six months from being produced.

6.2 使用条件 Use condition

使用条件限制：温度 $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ ，湿度 $\leq 90\%$

Use condition limit: $T=-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$, $\text{RH} \leq 90\%$.



深圳市深广电子科技有限公司

Shenzhen Shenguang Electronic Technology Co., LTD

客户/Client	深圳市硕宇科技有限公司
名称/TYPE	A11-50 单线圈 背胶线长 50MM
产品型号	
Model NO	SG-A1143.5-6.5UH-050
产品编号	
Part numbering systey	
客户料号	DZQT00069A1
Client p/NO	
工程编号	
Enginrer NO	TQE 1800510003
日期/Date	2024-6-20

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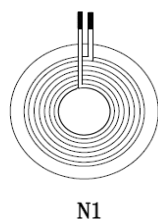
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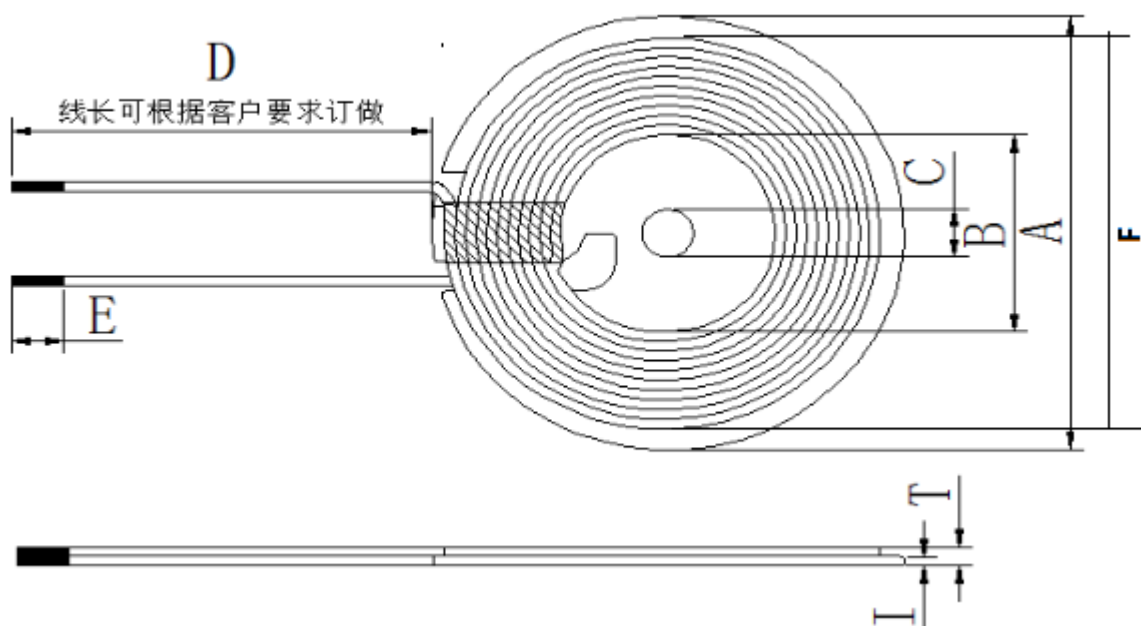
NO	项目	材料
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7		

三. 电路图/CIRCUIT DIAGRAM



单位: MM

四. 外形图/OUTSIDE DIAGRA



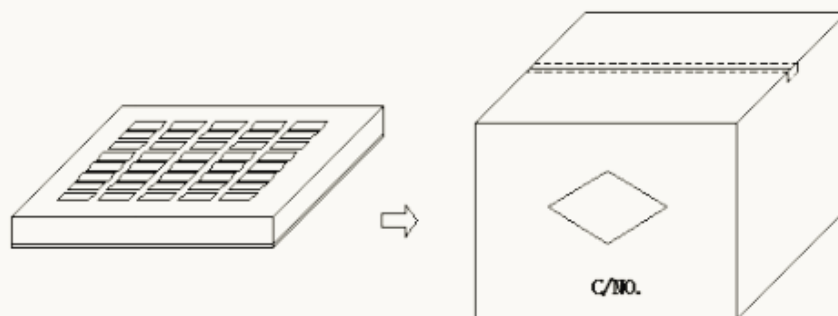
注: 线圈出线位置缠绕 6MM (ref) 高温胶纸

标准	A	B	C	D	E	F	I	T
STD	50±0.5	20.5±1.2	5.3±0.5	50±2	2-5	42±1.2	0.8±0.1	2.6Max

Unit: mm

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