

# SPECIFICATION FOR APPROVAL

CUSTOMER:

深圳市翊天科技有限公司  
Shenzhen Itian Technogy Co., Ltd.

ROHS

CUSTOMER P/N: Induction coil

Antenna gain: 0dBi

TITLE: SMD INDUCTANCE

DATE: 2022/8/29

HRSW MODLE : C12/A11 Round+Square Coil 40mm

REV.NO.: A0

PLEASE RETURN TO US COPY OF "SPECIFICATION FOR APPROVAL "WITH YOUR APPROVED

APPROVED <input type="checkbox"/>	REJECTED <input type="checkbox"/>	“ ✓ ”
CUSTOMER'S SIGNATURE <hr/>		

REV	DATE	CHANGED CONTENTENTS &CHANGED REASONS	DRAWN	CHECKED	APPROVED
A0	2022/8/29	NEW RELEASE	谢超	何伟华	韦立红

鸿日昇威科技有限公司

HRSW ELECTRONICS CO.,LTD

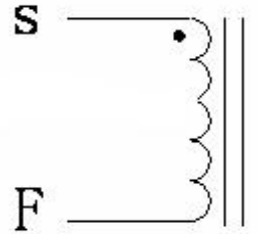
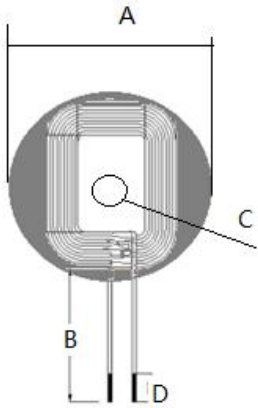
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# SPECIFICATION FOR APPROVAL

## 1.MECHANICAL DIMENSION (UNIT:mm)

## 2.SCHEMATICS:



1.线圈需热压反贴

1. The coil needs to be hot pressed and reversed stick.

2.外线圈需要做记号

2. The outer coil needs to be marked.

A	B	C	D	E
49.5±0.5	40±2	5.1±0.1	3±2	2.8Ref

## 3.WINDING:

STEP	START-FINISH	WIRE TYPE	TURNS	TAPE	REMARK
N1	S-F	丝包线/USTC wire $\phi$ 0.08*105mm 2UEW	9TS (Ref)		

## 4.ELECTRICAL SPECIFICATION:

ITEM	L	DCR	L	Q值	HI-POT
TEST CON D	线圈加磁片 Coil with ferrite sheet	S-F	单独线圈 Coil Only		
	100KHz,0.25V	AT 25°C	100KHz,0.25V		
SPEC	6.0uH±10%	60m $\Omega$ Max	3.9uH±10%		

## 5.BILF OF MATERIAL:

NO.	ITEM	MATERIAL SPECIFICATION	MANUFACTURER	SGS NO.
1	丝包线0.08*105股 USTC Wire 0.08*105P	丙酮丝包线0.08*105股 Acetone USTC wire 0.08*105P	NANJINGJINNINGCO,LTD	
2	无铅锡条 lead-free solder bar	无铅锡条 lead-free solder bar	QIAODO	
3	磁片 Ferrite sheet	$\phi$ 50*1.0锰锌硬磁片圆片 $\phi$ 50*1.0 Manganese-zinc hard ferrite sheet	TAIYI CO.,LTD	
4	胶水 Adhesive	黄胶9999 Chloroprene Adhesive 9999	LIANCHENG CO.,LTD	
5	背胶 Adhesive tape	$\phi$ 49*0.1	CUDAK CO.,LTD	

HRSW ELECTRONICS CO.,LTD

PART NO

TITLE

C12/A11 Round+Square Coil 40mm

DRAWN BY

CHECKED BY

APPROVED BY

谢超

何伟华

韦立红

# SPECIFICATION FOR APPROVAL

<b>6.SAMPLE TEST DATA</b>									
<b>6.1DIMENSION TEST(UNIT:mm)</b>									
TEST ITEM	A	B	C	D	E	H			
SPEC	49.5±0.5	40±2	5.2±0.15	3±2	2.8Ref				
1	49.37	40.2	5.23	4	2.76				
2	49.8	40.3	5.21	4.8	2.73				
3	49.5	41.8	5.12	4.6	2.71				
4	49.86	41.2	5.2	4.2	2.73				
5	49.97	41.2	5.24	3.8	2.75				
6									
7									
8									
9									
10									
MAX	49.97	41.80	5.12	4.80	2.76				
MIN	49.37	40.20	5.24	3.80	2.71				
AVERAGE	49.70	41.10	5.20	4.30	2.74				
<b>6.2ELECTRICAL TEST</b>									
TEST ITEM	L		DCR	IDC		Q	HI-POT		
	S-F		S-F						
TEST COND	100KHz/0.25v		AT 25°C						
SPEC	6.0uH ±10%		60mΩ (Max)			44			
1	5.98		45.00						
2	5.90		46.00						
3	6.00		47.00						
4	6.01		46.50						
5	5.99		46.30						
6									
7									
8									
9									
10									
MAX	6.01		47.00						
MIN	5.90		45.00						
AVERAGE	5.98		46.16						
HRSW ELECTRONICS CO.,LTD					PART NO				
					TITLE		C12/A11 Round+Square Coil 40mm		
DRAWN BY			CHECKED BY			APPROVED BY			
谢超			何伟华			韦立红			