

SINYOTechnology(Dongguan)co., Ltd.

TEL: 0769-86551123 FAX:

SAMPLE SPECIFICATION FOR APPROVAL

Customer	PYS High-Tech Co., LTD
Part Name	Coil
Liyin Part	20.5*41.5*0.08*45PX11TS
Customer Part No.	ECM_QIA11X1AAA_V2.0
Rev.	01
Date	2022.6.1

Customer Approved And Signature

SINYO Approved  
  
bingxiangxie

1. Sample Submission Reason

- ✓ 1. New SPEC
- 2. New Material.
- 3. ECR

2. Request For New SPEC.

<input type="checkbox"/> Current	<input type="checkbox"/> Request	<input type="checkbox"/> Reason

Remark:

- 1. Important When Sample Approved, Please Sign And Returned By Fax, Before Place Order Inorder To Fulfill Our ISO Requirement !
- 2. Above product comply to SINYO Environmental material system requirement.
- 3. In Event Of No Sign Back, We Will Under Take P.O. As Acceptance To Sample Approval!

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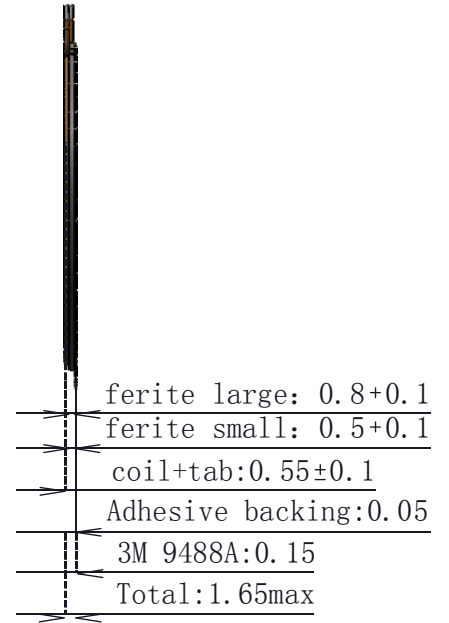
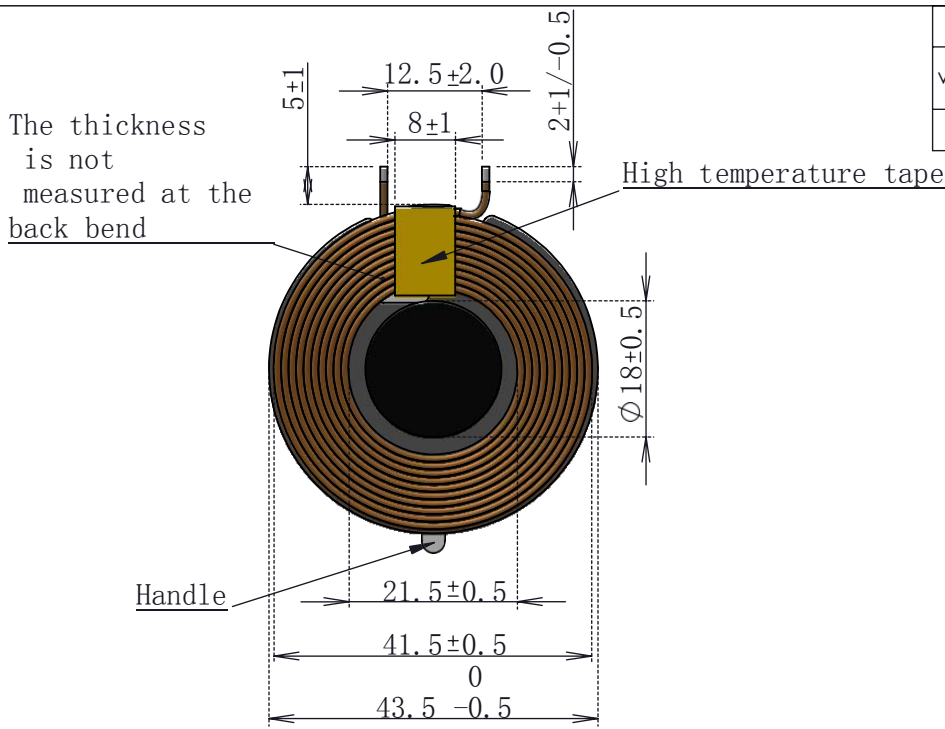
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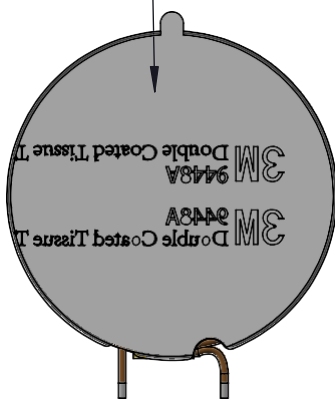
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revise				
version	Update records	tagging	Modification time	Audit
A.01	first edition			



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3M9448A




Ferrite technical requirements:

1. Use manganese zinc BP40
2. The parts are smooth and clean, and no convex dents shall appear
3. Products must be environmentally friendly

Coil technical requirements:

1. Wire specification: 0.08mm\*45P enameled copper wire
2. Coil specifications: COIL, ID21.5\*21.5\*0.08\*45P\*1P\*x10TS\*0.55(max)
3. Cable length 5±1mm; Lead immersion length 2+1/-0.5mm.
4. Neat winding, do not damage the surface enamel layer; Appearance requirements: Class 2.
5. Unnoted size according to the drawing file.
6. Unmarked tolerance: wire 0.2mm, R angle 0.5mm.
7. The product meets the requirements of halogen-free and meets the salt spray test 48H.
8. Do not replace materials and surface treatment without permission.
9. The symbol ball on the drawing is the key control dimensioning  
Size 10.7 CPK>0.7  
Finished electrical specifications: (@1V 100KHZ)  
Finished product (coil + ferrite) LS: 7.0uH±5%  
DCR:100m Ω (max)  
Q : > TBD

 <p>Sinyo Technology (Dongguan) Co., Ltd</p>	Figure name	TX COIL	quantity	
	number	EIM_QIA11X11AAA_V2.0	proportion	1:1
	Part number	1031.00266	unit	mm
General tolerances	±0.02mm ±0.5	Projected viewing angle	date	2022/10/18
1. Unmarked edge chamfer C0.5; 2. The following table without tolerances shall prevail 3. Key inch method*		devise	bingxiang proofread xie	Audit wei wei



SINYOTechnology(Dongguan)co., Ltd.

## ELECTRICAL CHARACTERISTIC

<b>CUSTOMER</b>	<b>Part Name</b>	<b>SINYO PART NO. CUSTOMER PART NO.</b>
PYS High-Tech Co., LTD	Coil	21.5*42*0.08*45PX10TS ECM_QIA11X1AAA_V2.0

<b>一.ELECTRICAL SPECIFICATION</b>		
1. Inductance: 7.0±5% uH	TEST CONDITION 100KHZ/1.0V	instrument NO.: general-purpose tester
2. Rdc Resistance: 100mΩMAX	25℃	instrument NO.: general-purpose tester
3. Q:>TBD	TEST CONDITION 100KHZ/1.0V	instrument NO.: general-purpose tester

### SINYO Sample test list

<b>ELECTRICAL TEST DATA:</b>		
Part Name: COIL		Test Data: <u>2022.6.1</u>
Part NO.: 21.5*42*0.08*45PX10TS	Part NO. of wire specification:	
CUST. PART No:	2UEW-HB0.08*45P	Checker:Ares xie

<b>二. ELECTRICAL CHARACTERISTIC</b>						
	<b>SAMPLE</b>					<b>Judge</b>
	<b>NO.1</b>					
1. Inductance (7.0 ±5% μH)	6.83	6.88	6.88	6.86	6.95	OK
2. DC Resistance (100mΩMAX)	83.46	83.70	83.56	83.57	83.78	OK
3. Q:>TBD	51.15	52.24	51.17	52.15	52.31	OK

<b>二.SIZE</b>									
TEST ITEM	Parameter	Conditions	SAMPLE					Equipment	Judge
			NO.1	NO.2	NO.3	NO.4	NO.5		
Thickness	1.65mm MAX	—	1.57	1.59	1.56	1.56	1.57	Callipers	OK
Lead wire length	S=F=5±1.0mm	—	5.06	4.80	4.58	4.57	4.65	2.5D	OK
Solder length	2+1-0.5mm	—	1.75	1.58	1.68	1.87	1.84	2.5D	OK
O. D.	41.5±0.5mm	—	41.13	41.22	41.24	41.25	41.26	2.5D	OK
I. D.	21.5±0.5mm	—	21.33	21.35	21.52	21.73	21.55	2.5D	OK
Outer diameter of magnetic disc	43.5±0.5mm	—	43.20	43.26	43.23	43.30	43.21	2.5D	OK
spacing	12.5+/-2	—	11.33	12.53	12.21	11.19	10.58	2.5D	OK

<b>SINYOTechnology(Dongguan)co., Ltd.</b> FAX:0769-86551123	Prepared by	Reviewed By	Approved By	Rev.01
	bingxiangxie	bingxiangxie	weiwei	



SINYOTechnology(Dongguan)co., Ltd.

# Material List

CUSTOMER			Part Name	SINYO PART NO. CUSTOMER PART NO.
PYS High-Tech Co., LTD			COIL	21.5*42*0.08*45PX10TS ECM_QIA11X1AAA_V2.0
NO.	Material name	Material part NO.	Manufacturer	
1	Copper wire	2UEW-HB0.08*45P	WEI FEN	
2	Lead-Free Solder	YD-99.9%Sn	YI DA	
3	Foam plate	360*260*60 (25lattice)	LIN ZHI	
4	Glue	SH-8536	HE BANG	
5	Feerite	Ø 43.5 *0.8	LIN ZE	
6	Feerite	Ø18*0.5	GAN TAI	
7	adhesive backing	3M 9448A	GAN TAI	

Prepared By: bingxiangxie

Approved By: weiwei

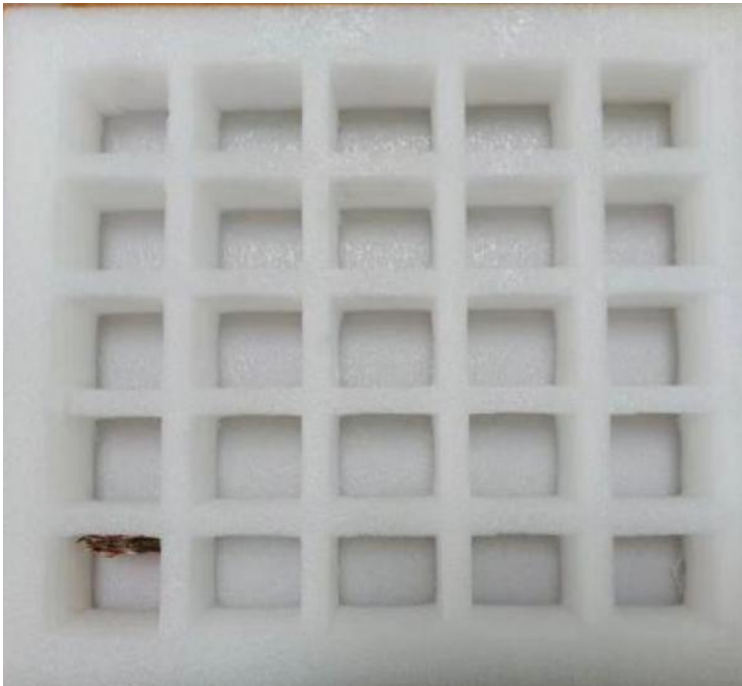


SINYOTECH  
ogy (Dongguan) co., Ltd.

## COIL Manner of packing

Customer: PYS High-Tech Co., LTD  
part name: COIL  
part NO: / 21.5\*42\*0.08\*45PX10TS /ECM\_QIA11X1AAA\_V2.0

### Packaging method



Foam tray packaging
specification: 360*260*60mm (25 lattice)
20 pcs/lattice
500 pcs/tray
carton (REF)
specification: 390*290*280mm k=k (strengthen)
4 tray/box
2000 pcs/box

Wireless charging coil storage method	
Part number	20.5*42*0.08*45PX10TS
Foam tray packaging	4tray/box
Store humidity	Not more than 80%RH
Storage temperature	room temperature
Storage time	3 months (1 year for the coil body, 3 months for the tinned part of the leads)
Environmental protection	Environmental and non-environmentally friendly materials are separated from
Manufacturing requisition	FIFO-out

Remarks: 1. Each bundle of COIL should be placed close in the carton, and the middle should be comfortably separated to relieve the shaking of the coil in the carton.

Prepared By: bingxiangxie

Approved By: weiwei



# Reliability Test

SINYOTECH(Dongguan)co., Ltd.

customer: PYS High-Tech Co., LTD

part name: COIL

part NO. : 21.5\*42\*0.08\*45PX10TS /ECM\_QIA11X1AAA\_V2.0

Date: 2022-6-1

ITEM	Experiment condition	Test method(Describe the experiment)	remark
Bond Strength	15G MIN	Tie the two lead wire of coil on the pulling force machine, pull the coil vertically downward until the lead wire loose away from the coil the record the data.	
Pinhole test	12V/1minutes	Put the COIL into the pinhole test solution to see if the COIL itself is red.	