



### SPECIFICATION FOR APPROVAL

产品规格承认书

Inverter Inductor

逆变电感

CUSTOMER.

MODEL NO.

MBJ456022-241M

CUSTOMER'S PART NO.

LILE NO.

DATE.

2023.07.24

REVISION.

A/0

CUSTOMER APPROVE		
DATE:		
DRAWING		
DRAWN BY	CHECK BY	APPROVAL BY
林思思	陈健波	曾伟
DATE:2023.07.24		



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<b>CUSTOMER</b>		<b>MODEL NO.</b>	MBJ456022-241M	<b>REVISION</b>	A/0
<b>FILE NO.</b>		<b>PART NO.</b>		<b>DATE</b>	2023.07.24

REVISIONS

<b>REW</b>	<b>PROJECT CHANGE</b>	<b>DESCRIPTION</b>	<b>Date</b>

CUSTOMER		MODEL NO.	MBJ456022-241M	REVISION	A/0
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1.PRODUCT DIMENSION		UNIT:mm	
	A	63.5Max	
	B	61Max	
	C	32.5Max	
	D	3.5±0.5	
	E	30±0.5	
	F	34±0.5	
	G	30.0±0.5	
	H	61Max	
	I	63.5Max	

2.ELECTRICAL REQUIREMENTS			
PARAMETER	SPECIFICATION	CONDITION	TEST INSTRUMENTS
L(uH)(1-4)	240±20% 短路PIN2, 3脚	10KHz/1V	MICROTEST 6377
Q(1-4)	120 Min 短路PIN2, 3脚	10KHz/1V	MICROTEST 6377
DC(A)(1-4)	>72uH 80A 短路PIN2, 3脚	10KHz/1V	MICROTEST 6377+6220
DCR(mΩ)(1-2)(3-4)	6.5Max	At 25°C	TH16502
HI-TOP (PIN1,3-CORE)	1500V AC	3S/50Hz/1mA	AC/DC/IR 19052
HI-TOP (PIN1-PIN3)	1500V AC	3S/50Hz/1mA	AC/DC/IR 19052

3.MATERIAL LIST		
ITEM	MATERIAL	SUPPLIER
CORE	NPH4555180898V1-60	POCO/PULEHUA
WIRE	EIW-H 1.4*5.0	TAIYI-JIATENG-SONGYE
SOLDER	无铅焊锡条 Sn-0.7Cu	YUNXI
助焊剂	JS-807	JIANXING
TUBE		
环氧板	FR-4/50*30*1.5	/
	63*60*0.8	/
复合纸	34*76*0.13mm GUBANG-NMN	FUWEI
胶带	#PF-301 0.025*15.0MM 咖啡色	YAHUA
	#2901-65G 0.29*8.0MM 白色	YAHUA
环氧胶	G500	AIMASENKANGMING
	3300A-1(浓-K)	LIDUO
无纺布	#2901-65G;0.29*5MM;白色	/
绝缘漆	5183SW	AILUNTASI
稀释剂	T003	AILUNTASI
固化剂	C10	AILUNTASI
INK	9155E 黑色	/

4.SPECIAL REQUEST		
(1)Lettering	COILMX YYWW	on top of the body.

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**5.PRODUCT IDENTIFICATION**

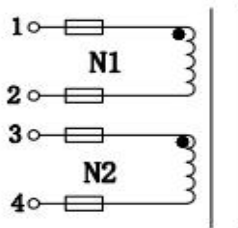
XXX XXX - XXX X

①      ②      ③      ④

①、Coilmx Series Name    ②、 Dimensions    ③、 Inductance

④、 Tolerance: M±20%, N±30%.

**6.ELECTRICAL SCHEMATICS**



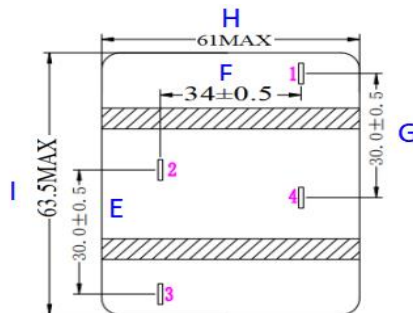
**7.APPLICATION**

- (1)Low profile,high current power supplies.
- (2)Energy storage, voltage boost, filtering, EMI elimination
- (3)DC/DC converters in distributed power systems.
- (4)DC/DC converters for field programmable gate array.

**8.FEATURES**

- (1)Assemblage design, sturdy structure.
- (2)High inductance, high current, low magnetic loss,low ESR, small parasitic capacitance.
- (3)Flat wire winding, achieve a low D.C. Resistance.
- (4)Temperature rise current and saturation current is less influenced by environment.

**9.RECOMMENDED PCB LAYOUT**



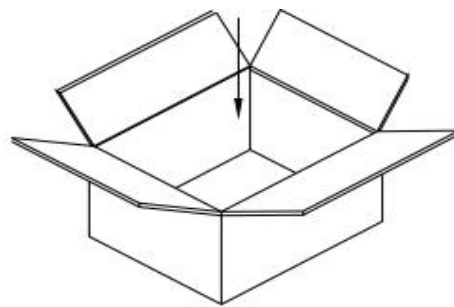
CUSTOMER		MODEL NO.	MBJ456022-241M		REVISION	A/0				
FILE NO.		PART NO.			DATE	2023.07.24				
SORT	ITEM	A	B	C	D	E	F	G	H	I
PRODUCT & DIMENSION	SPEC	63.5Max	61Max	32.5Max	3.5±0.5	30±0.5	34±0.5	30.0±0.5	61Max	63.5Max
	1	63.02	60.23	32.02	3.55	30.26	34.12	30.24	60.23	63.03
	2	63.05	62.24	32.03	3.51	30.25	34.1	30.23	60.23	63.06
	3	63.04	60.22	32.04	3.56	30.19	34.21	30.21	60.23	63.05
	4	63.06	60.23	32.06	3.62	30.26	34.23	20.19	60.24	63.04
	5	63.08	60.25	32.06	3.61	30.27	34.15	30.19	60.35	63.09
	X	63.05	60.63	32.04	3.57	30.25	34.16	28.21	60.26	63.05
	R	0.06	2.02	0.04	0.11	0.08	0.13	10.05	0.12	0.06
ELECTRICAL & REQUIREMENTS	ITEM	L(uH)(1-4)	DCR (mΩ)(1-2)	DCR (mΩ)(3-4)	DC(A)(1-4)	SHAPE:				
	SPEC	240±10%	6.5Max	6.5Max	>72uH 80A					
	1	227.80	5.75	5.75	88.90					
	2	228.50	5.76	5.78	89.50					
	3	228.50	5.75	5.76	90.10					
	4	228.80	5.76	5.78	90.20					
	5	227.90	5.78	5.79	89.80					
	X	1.63	5.76	5.77	89.70					
	R	1.00	0.03	0.04	1.30					

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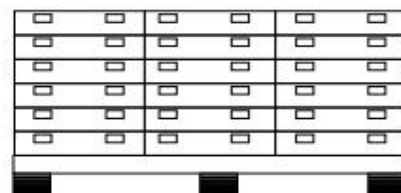
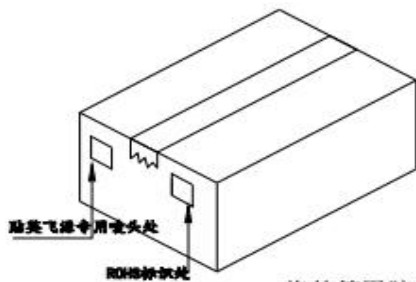
11、包装 Packaging



1PCS/孔; 12PCS/层



2层/箱, 层与层之间用隔板隔开, 最上一层加盖1张珍珠棉



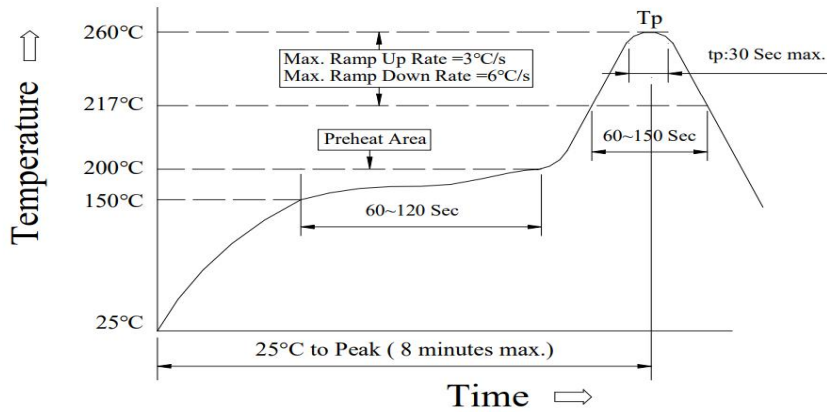
将外箱用胶带封好, 贴上对应的客户的唛头与ROHS唛头, 整齐摆放于栈板上, 每层摆放5箱, 最高摆放6层

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Reflow curve

※ Reflow Profile

Power Choke Coil Type



1. Reflow Soldering Method

Reflow Soldering	Tp:255~260°C	Max.30 seconds ( tp )
	217°C	60~150 seconds
Pre-Heat	150 ~ 200°C	60~120 seconds
Time 25°C to peak temperature	8 minutes max.	

2. Soldering iron method : 350±5°C Max.3 seconds.

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