



Product Specification for Approval

WE ARE PLEASED IN SUBMITTING OUR SAMPLES WITH SPECIFICATION TO YOU FOR APPROVAL.

CUSTOMER	:	
DESCRIPTION	:	PLANAR INDUCTOR
MNC P/N	:	MHW1306SG1R0M
VERSION	:	A0
CUSTOMER P/N	:	
ISSUED DATE	:	2020/4/1
PHOTO OF PRODUCT	:	
WEIGHT	:	
MADE IN	:	CHINA



APPROVED BY MNC		
PREPARED BY	CHECKED BY	APPROVED BY
Fanny	Renbo Zhu	Zhiliang Gong

APPROVED BY CUSTOMER
SIGNATURE OR STAMP

1. PLEASE SEND BACK US A COPY OF THE SPECIFICATION WITH YOUR STAMP OR SIGNATURE ONCE THE SAMPLES APPROVED.
2. IT WILL BE DEEMED THE SAMPLES TO BE APPROVED IF NO FEEDBACK.

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HISTORY FOR REVISED SPECIFICATION

Part No. MHW1306SG1R0M

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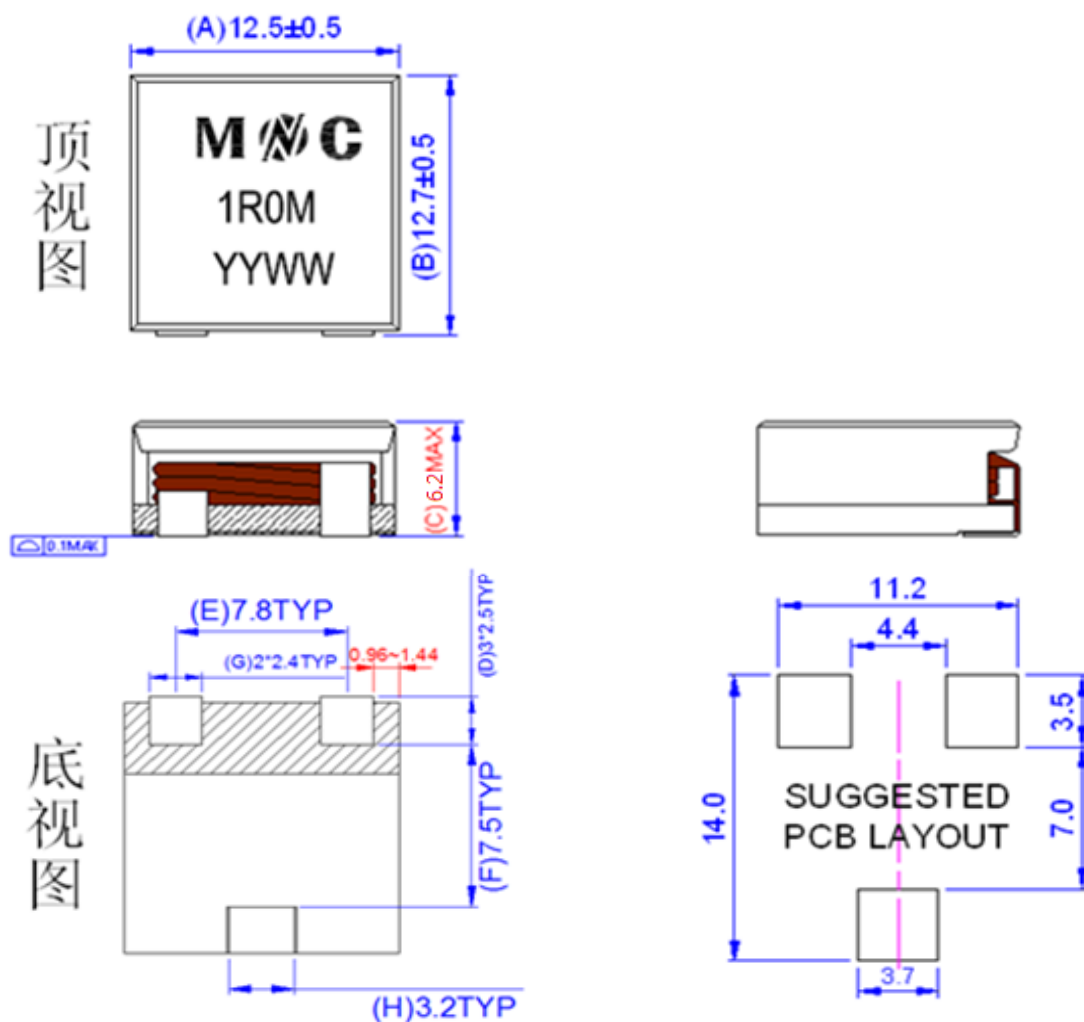
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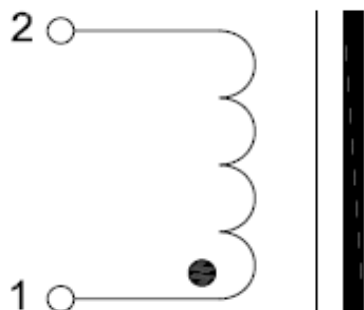
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CHANGE RECORD

REV.	DESCRIPTION (Content or Reason For Change)	DATE	REVISOR
A0	INITIAL RELEASE	2020/4/1	Fanny

SPECIFICATION
Part No. MHW1306SG1R0M
A. MECHANICAL:


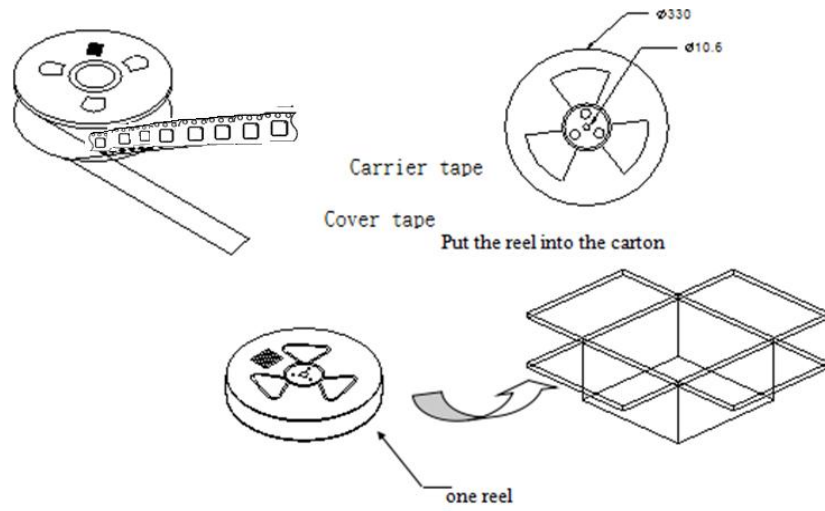
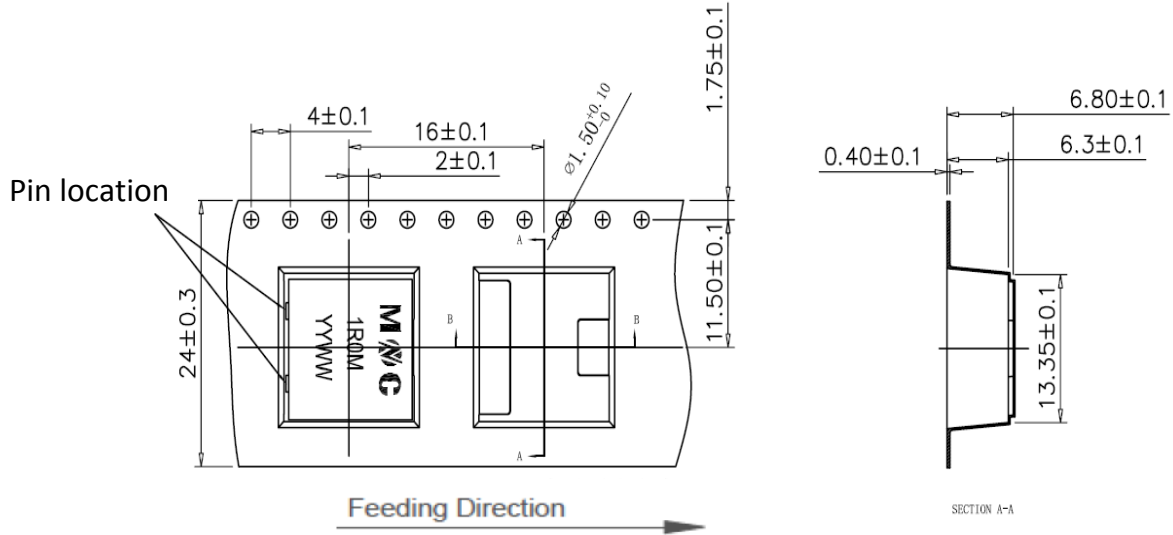
- 1.UNITS:mm/inch.
- 2.UNLESS OTHERWISE SPECIFIED ALL TOLERANCES ARE: $\pm 0.25\text{mm}$
- 3.PIN LENGTH DON'T INCLUDE SOLDER POINT

SPECIFICATION
Part No. MHW1306SG1R0M
B. SCHEMATIC :

D. ELECTRICAL SPECIFICATION

ITEM	SPECIFICATION	TEST CONDITION	TEST EQUIPMENT
INDUCTANCE : 1-2	1.0uH ±20%	100KHz, 1V @25°C	TH2819XB OR EQU.
La : 1-2	0.80uH MIN	100KHz, 1V , +30Adc, @25°C	WK3260B+WK3265B OR EQU
DC RESISTANCE : 1-2	1.18mΩ MAX	At 25°C	TOS8020 OR EQU.
Isat:1-2	30A	At 25°C	HP4284A OR EQU
Irms:1-2	30A	At 25°C	HP4284A OR EQU
Hi pot :Coil to core	Normal	100VDC ,2mA, 2s	TH9201S
Insulation Resistance:Coil to core	100M ohm MIN	DC 100V	TOS7200
OPERATING TEMPERATURE RANGE : (INCLUDING COIL' SELF TEMPERATURE	-40°C to 125°C		
STORAGE TEMPERATURE RANGE :	-40°C to 125°C		

REMARK:

- 1.The rated current as listed is either the saturation current or the heating current depending on which value is lower.
- 2 .Heating Current (Irms) is the DC current which causes the part temperature to increase by approximately 55°C .

PACKAGE
Part No. MHW1306SG1R0M
1. PACKING:
a. PACKAGING AS BELOW (ONLY FOR REFERENCE):

b. Q'TY:

450:PCS PER TRAY
3150:PCS PER CARTON

c. LABEL:

REMARK:

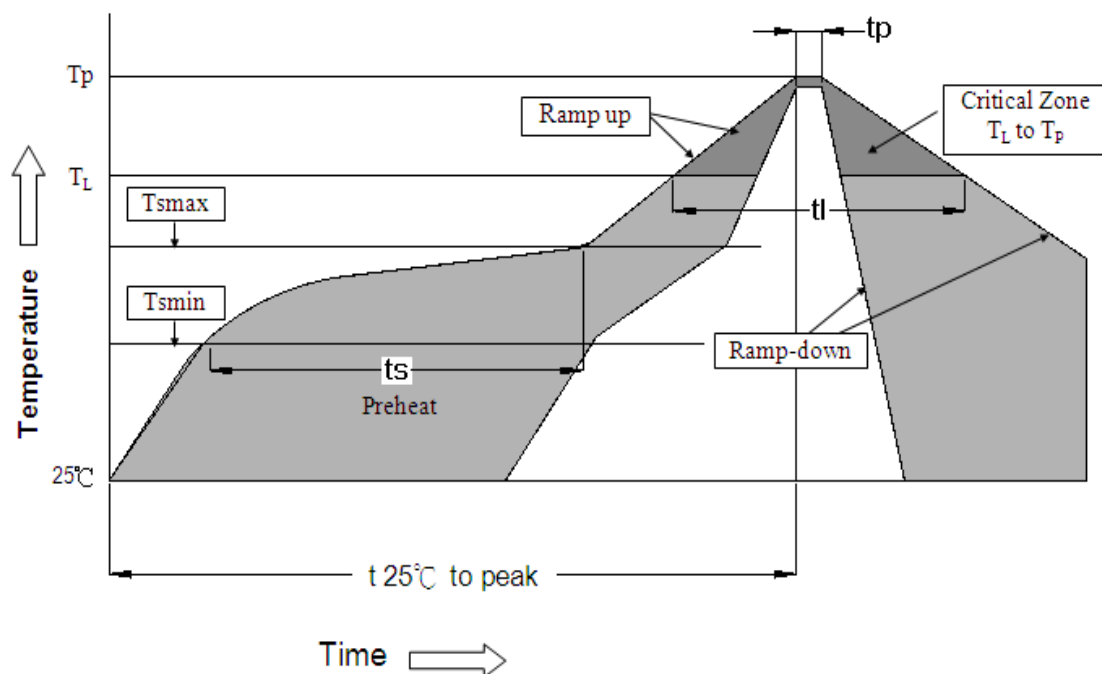
ABOVE PACKING IS FOR YOUR REFERENCE ONLY, WHICH MIGHT BE CHANGED WITHOUT NOTICE.

MATERIAL LIST
Part No. MHW1306SG1R0M
BOM

MATERIAL LIST					
NO.	ITEM	MATERIAL	RATING	SUPPLIER OF MATERIAL	UL
1	CORE	Mn-Zn	-----	SHANGHAI JISHUN MAGNETIC MATERIAL CO.,LTD	N/A
				RUYUAN DONGYANGGUANG MAGNETIC MATERIALS CO.,LTD	N/A
				HENGDIAN GROUP DMEGC MAGNETICS CO., LTD OR EQU.	N/A
2	WIRE	SFT-EI/AIWJ	220℃	WELL ASCENT ELECTRONIC (GANZHOU) CO LTD	E318511
		@*xEI/AIW 220	220℃	ZHUHAI SUNTEK WIRE CO.,LTD OR EQU.	E234867
3	EPOXY	2089	-----	DONGGUANG CHENGGE INSULATION MATERIALS CO., LTD.	N/A
		6911 G2	-----	MIANYANG WELLS	N/A
4	TERMIAL	C1100	-----	MINGSCHIN	N/A
		C1100	-----	TIANQI	N/A

RECOMMENDED SOLDERING PROFILE
Part No. MHW1306SG1R0M
1. RECOMMENDED REFLOW SOLDERING PROFILE:

Below content is only for your reference.


 $T = 217^{\circ}\text{C}$
 $T_p = 250^{\circ}\text{C}$
 $t_s = 60-180\text{s}$
 $T_s \text{ max} = 200^{\circ}\text{C}$
 $T_s \text{ min} = 150^{\circ}\text{C}$
 $t = 60-150\text{s}$
 $t_p = 20-40\text{s}$
 $T_{25^{\circ}\text{C to peak}} = 8\text{min max}$

 Ramp up rate = 3°C/s max

 Ramp down rate = 6°C/s max

*RoHS Compliant

*Solder Paste SAC 305 Sn 96.5/Ag 3.0/Cu 0.5

*Silkscreen thickness: 0.15mm Min

2. MOISTURE SENSITIVE LEVEL:

2.1. Level: 1

2.2. Shelf Life: Unlimited

 2.3. Storage Condition: $\leq 30^{\circ}\text{C}/85\% \text{ RH}$