

Product Specification for Approval

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

CUSTOMER	:	
DESCRIPTION	:	PLANAR INDUCTOR
MNC P/N	:	MHW1807SG4R0K
VERSION	:	A0
CUSTOMER P/N	:	
ISSUED DATE	:	2020/6/9
PHOTO OF PRODUCT	:	
WEIGHT	:	8.8g
MADE IN	:	CHINA



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

APPROVED BY CUSTOMER
SIGNATURE OR STAMP

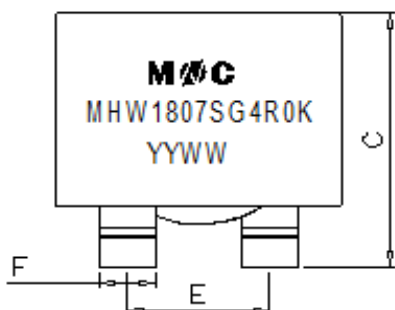
1. PLEASE SEND BACK US A COPY OF THE SPECIFICATION WITH YOUR STAMP OR SIGNATURE ONCE THE SAMPLES APPROVED.
2. IT WILL BE DEEMED THE SAMPLES TO BE APPROVED IF NO FEEDBACK.

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 FAX: +86-769-81701563

SPECIFICATION
Part No. MHW1807SG4R0K
A. MECHANICAL: (UNITS: mm)

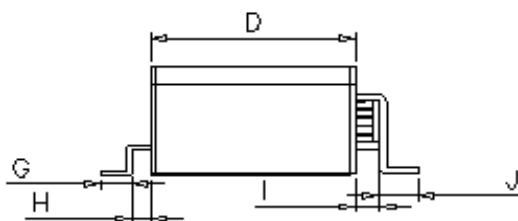
TOP VIEW


 YY WW
 Week
 Year

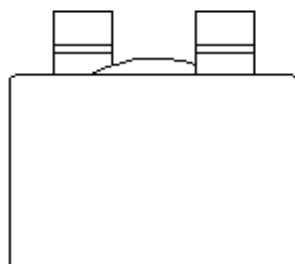
FORNT VIEW



SIDE VIEW

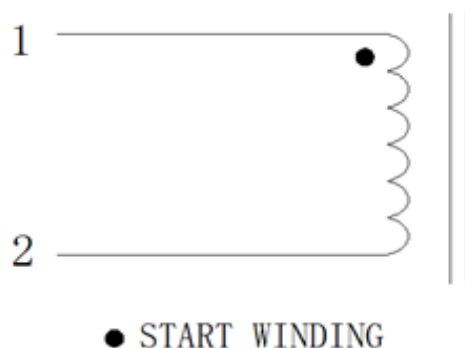


BOTTOM VIEW

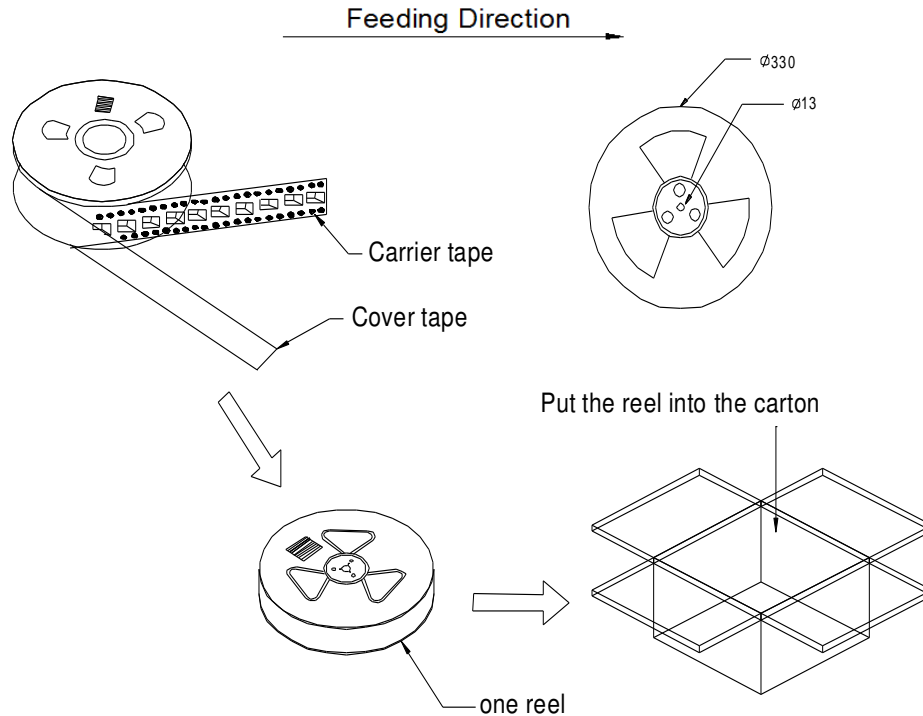
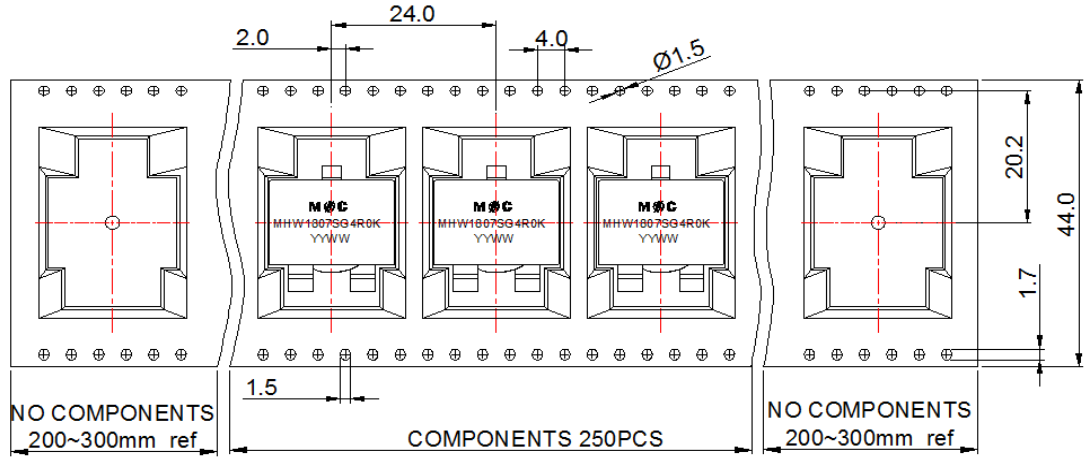

 1. Unless otherwise specified all tolerances are: $\pm 0.25\text{mm}$

2. All pin length don't include tin icicles

DIM	MILLIMETERS
A	19.00 Max
B	18.20 \pm 0.40
C	20.30 \pm 1.00
D	13.00 \pm 0.40
E	9.00 \pm 0.50
F	3.50 \pm 0.30
G	2.00 \pm 0.50
H	1.30 \pm 0.50
I	1.50 \pm 0.50
J	2.50 \pm 0.50
K	8.5 Max

SPECIFICATION
Part No. MHW1807SG4R0K
B. SCHEMATIC :

C. ELECTRICAL SPECIFICATION @25°C

ITEM	SPECIFICATION	TEST CONDITION	TEST EQUIPMENT
L: 1-2	4.0uH±10%	100KHz,1V	WK3260B OR EQU.
Isat:1-2	18A (L drop 30%MAX)	100KHz,1V AT 25 °C	WK3260B+3265B
Irms:1-2	18A	100KHz,1V AT 25 °C	WK3260B+3265B
DC RESISTANCE: 1-2	3.0mΩ Max	25°C	TH2512B OR EQU.
Hi pot :Coil to core	300VDC	1mA,60S	TH9201S OR EQU
OPERATING TEMPERATURE RANGE	-40°C to 125°C (Including self temperature rise)		
STORAGE TEMPERATURE RANGE	-40°C to 125°C		

SPECIFICATION
Part No. MHW1807SG4R0K
1. PACKING:
a. PACKAGING AS BELOW (ONLY FOR REFERENCE):

b. Q'TY:

250pcs/reel
 5 reel/carton
 1250 pcs/carton

c. LABEL:

REMARK:

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

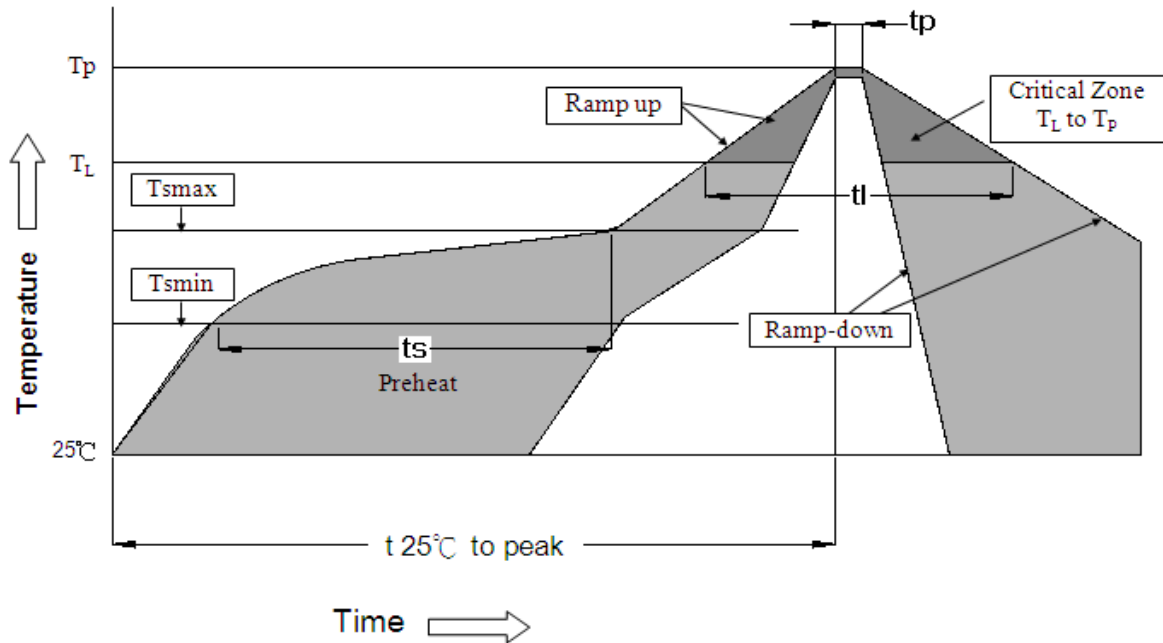
MATERIAL LIST
Part No. MHW1807SG4R0K
BOM

MATERIAL LIST					
NO.	ITEM	MATERIAL	RATING	SUPPLIER OF MATERIAL	UL
1	CORE	Mn-Zn	-----	JIANUO	N/A
			-----	DMEGC	N/A
2	WIRE	SFT-EI/AIWJ	220°C	WELL ASCENT ELECTRONIC (GANZHOU) CO LTD	E318511
		@*xEI/AIW	220°C	ZHUHAI SUNTEK WIRE CO., LTD.	E234867
3	TERMIAL	C1100	-----	MINGSCHIN	N/A
		C1100	-----	TIANQI	N/A
4	EPOXY	6911 G2	150°C	MIANYANG WELLS	N/A
		2089	150°C	DONGGUANG CHENGGE INSULATION MATERIALS CO., LTD	N/A

RECOMMENDED SOLDERING PROFILE

Part No. MHW1807SG4R0K

1. RECOMMENDED REFLOW SOLDERING PROFILE:



$T_L = 217^\circ\text{C}$

$T_P = 245^\circ\text{C}$

$t_s = 60-120\text{s}$ $T_{s\text{ max}} = 200^\circ\text{C}$ $T_{s\text{ min}} = 150^\circ\text{C}$

$t_l = 60-150\text{s}$ $t_p = 20-40\text{s}$ $T_{25^\circ\text{C to peak}} = 8\text{min max}$

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: $\leq 30^\circ\text{C}/85\% \text{ RH}$