

## Product Specification for Approval

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

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



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.

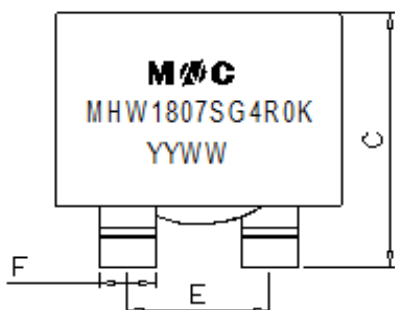
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**SPECIFICATION**
**Part No. MHW1807SG4R0K**
**A. MECHANICAL: (UNITS: mm)**

TOP VIEW

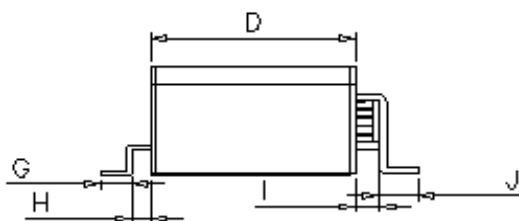


YY WW  
 |  
 |  
 |----- Week  
 |----- Year

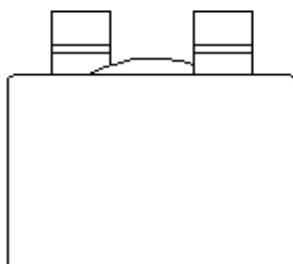
FORNT VIEW



SIDE VIEW

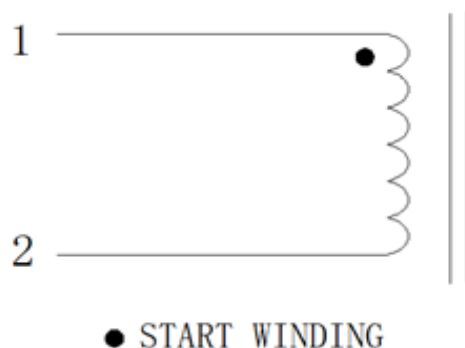


BOTTOM VIEW

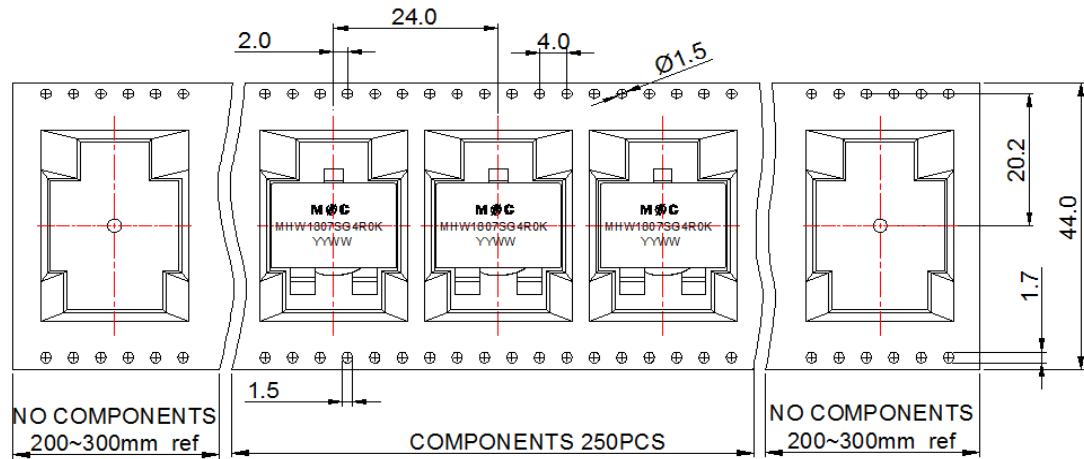

 1. Unless otherwise specified all tolerances are:  $\pm 0.25\text{mm}$ 

2. All pin length don't include tin icicles

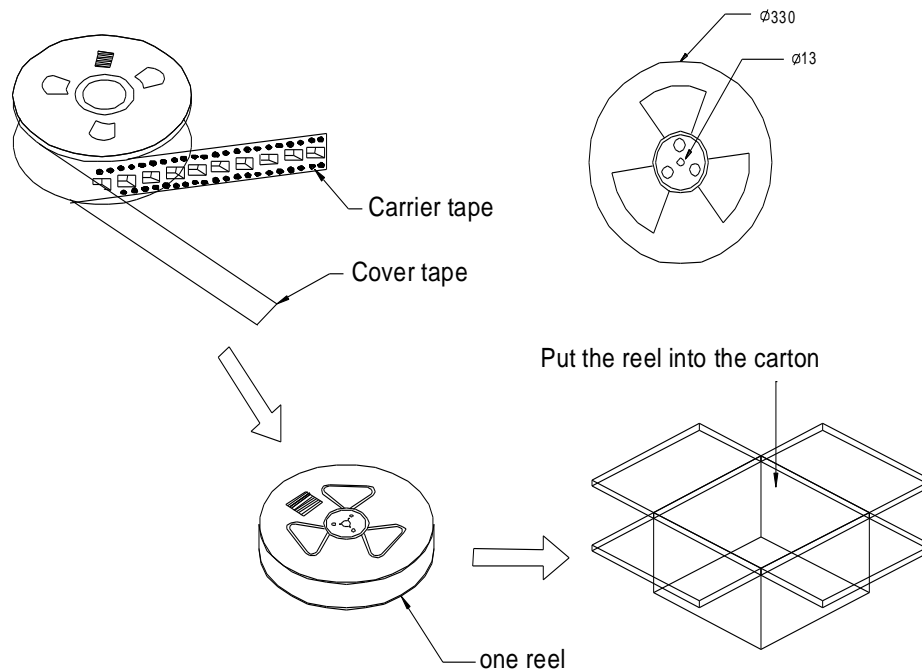
DIM	MILLIMETERS
A	19.00 Max
B	18.20 $\pm$ 0.40
C	20.30 $\pm$ 1.00
D	13.00 $\pm$ 0.40
E	9.00 $\pm$ 0.50
F	3.50 $\pm$ 0.30
G	2.00 $\pm$ 0.50
H	1.30 $\pm$ 0.50
I	1.50 $\pm$ 0.50
J	2.50 $\pm$ 0.50
K	8.5 Max

**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):**


Feeding Direction →


**b. Q'TY:**

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

**c. LABEL:**

<b>ACCEPTED</b>			
CUSTOMER: _____			
Internal P/N: _____			
QTY: _____	PCS	D/C:	_____
W/O: _____		FQA: _____	

**REMARK:**

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

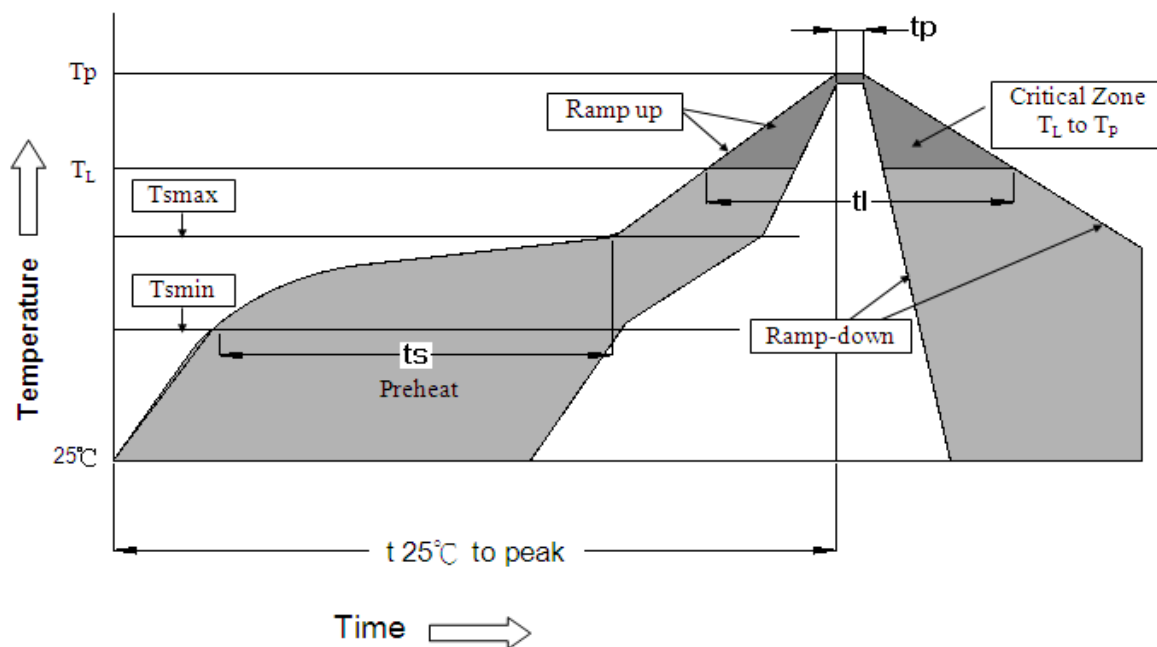
**MATERIAL LIST**
**Part No. MHW1807SG4R0K**
**BOM**

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 =  $3^\circ\text{C/s max}$

Ramp down rate =  $6^\circ\text{C/s max}$

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