

## 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>MHW2009SG7R0KA</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>10.5g</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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东莞铭普光磁股份有限公司  
Dongguan Mentech Optical & Magnetic Co., Ltd.

**HISTORY FOR REVISED SPECIFICATION**

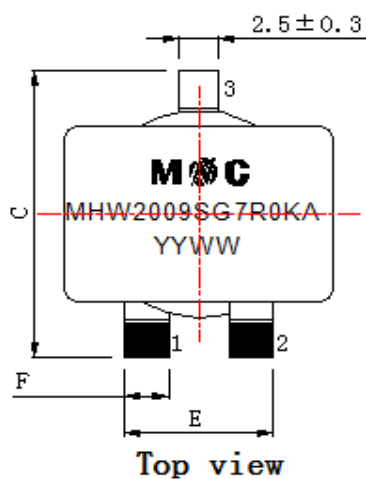
**Part No. MHW2009SG7R0KA**

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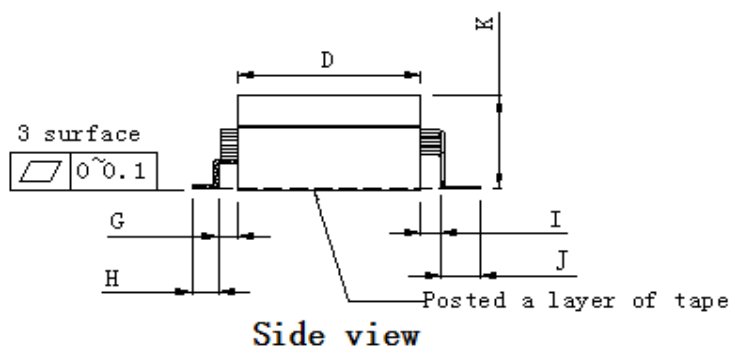
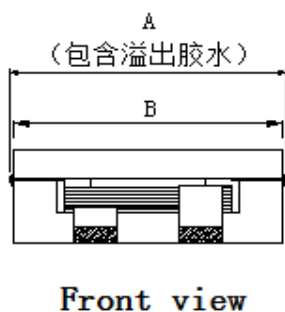
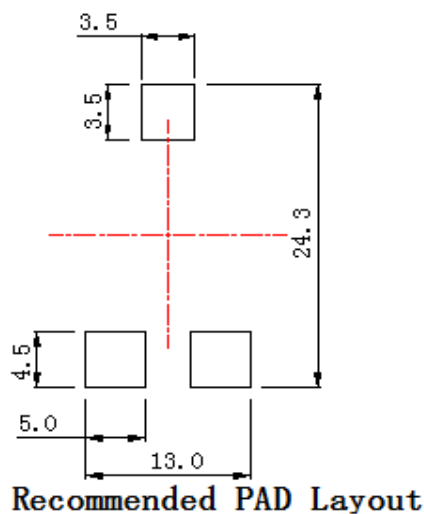
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**CHANGE RECORD**

<b>REV.</b>	<b>DESCRIPTION (Content or Reason For Change)</b>	<b>DATE</b>	<b>REVISOR</b>
A0	Initial release	2020/6/9	Fanny

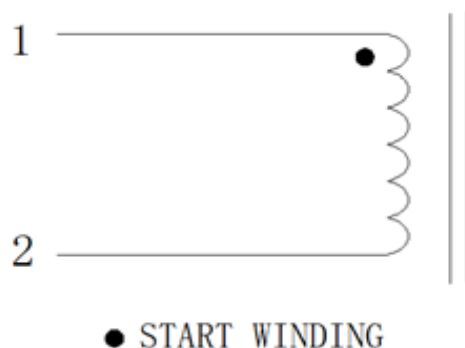
**SPECIFICATION**
**Part No. MHW2009SG7R0KA**
**A. MECHANICAL: (UNITS: mm)**


YY WW  
 Week  
 Year

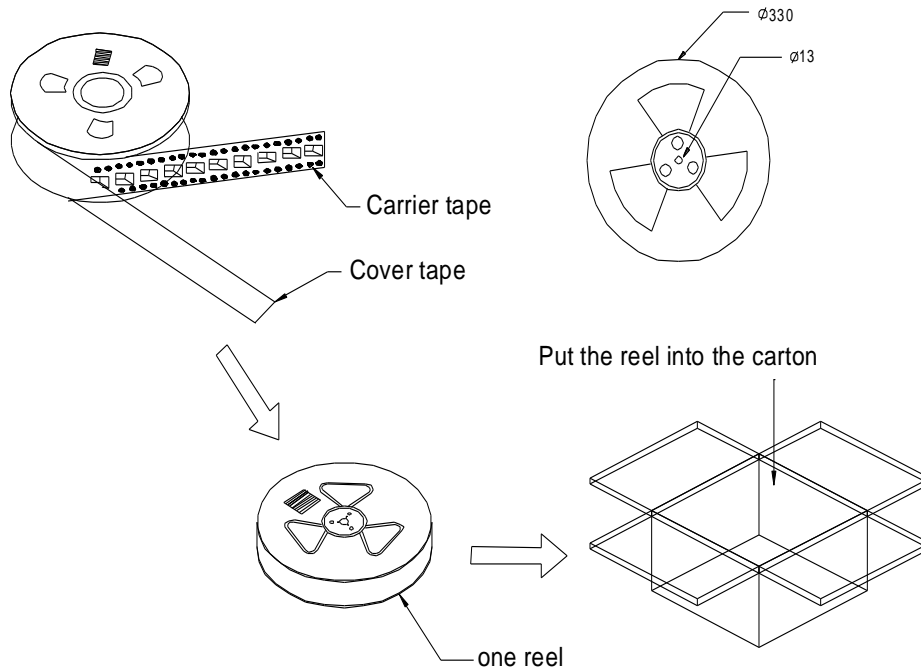
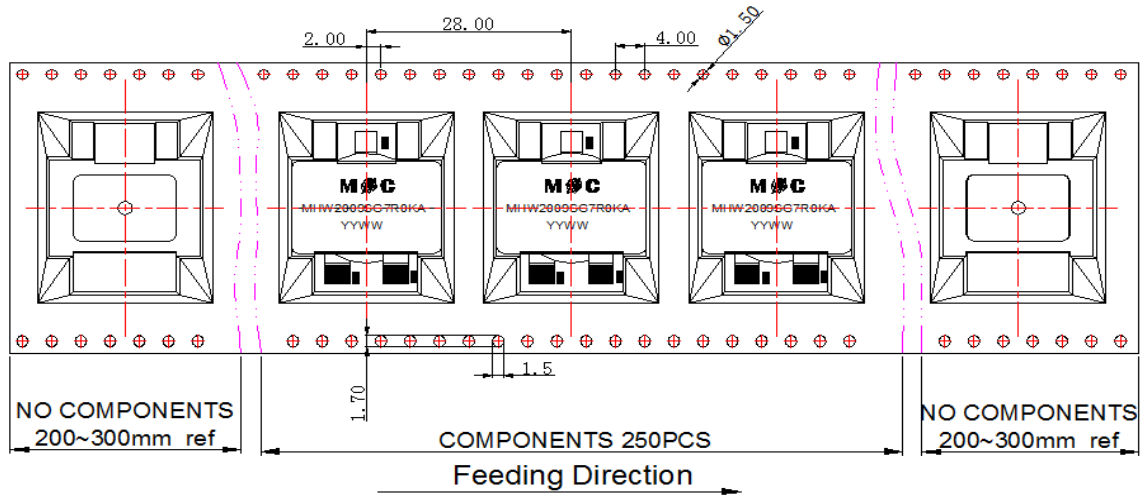


1. Unless otherwise specified all tolerances are:  $\pm 0.25\text{mm}$
2. All pin length don't include tin icicles

DIM	MILLIMETERS
A	21.2 Max
B	20.0 $\pm$ 0.35
C	21.8 $\pm$ 0.5
D	14.0 $\pm$ 0.3
E	11.5 $\pm$ 0.7
F	3.5 $\pm$ 0.3
G	1.3 $\pm$ 0.5
H	2.0 $\pm$ 0.5
I	1.5 $\pm$ 0.5
J	3.0 $\pm$ 0.5
K	8.2 $\pm$ 0.3

**SPECIFICATION**
**Part No. MHW2009SG7R0KA**
**B. SCHEMATIC :**

**C. ELECTRICAL SPECIFICATION @25°C**

ITEM	SPECIFICATION	TEST CONDITION	TEST EQUIPMENT
L: 1-2	7.0uH±10%	100KHz,1V	WK3260B OR EQU.
Isat:1-2	18A (L drop 30%MAX)	100KHz,1V AT 25 °C	WK3260B+3265B
Irms:1-2	7A	100KHz,1V AT 25 °C	WK3260B+3265B
DC RESISTANCE: 1-2	7.0mΩ Max	25°C	TH2512B OR EQU.
Hi pot :Coil to core	500VDC	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. MHW2009SG7R0KA**
**1. PACKING:**
**a. PACKAGING AS BELOW (ONLY FOR REFERENCE):**

**b. Q'TY:**

250pcs/reel  
4 reel/carton  
1000 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.

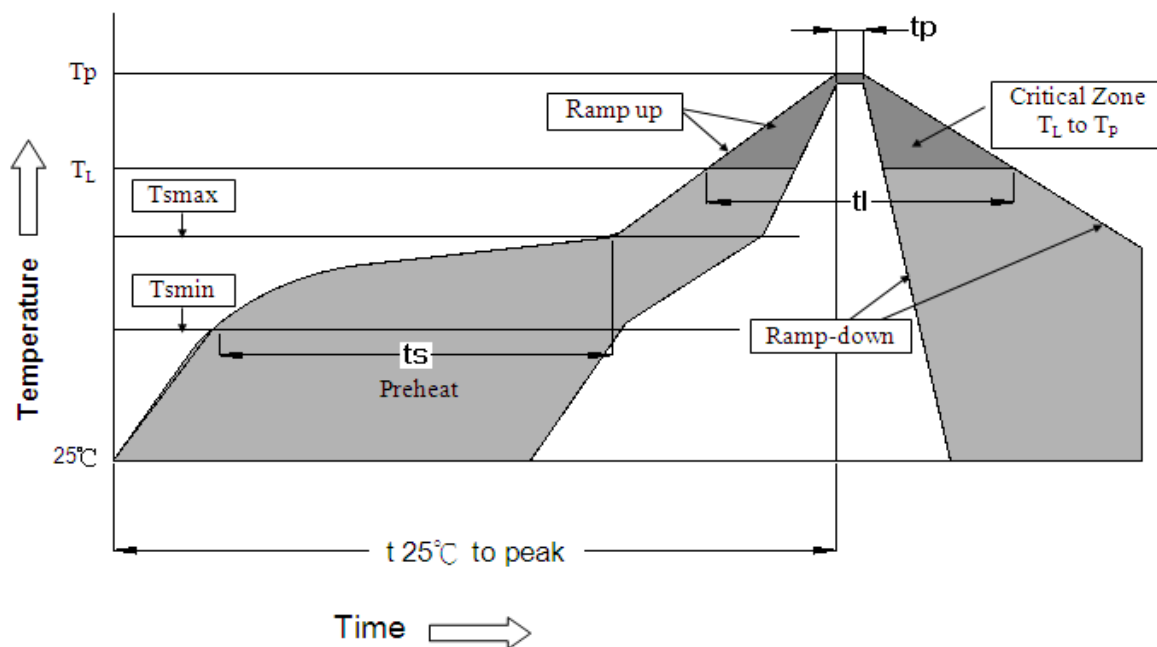
**MATERIAL LIST**
**Part No. MHW2009SG7R0KA**
**BOM**

<b>MATERIAL LIST</b>					
<b>NO.</b>	<b>ITEM</b>	<b>MATERIAL</b>	<b>RATING</b>	<b>SUPPLIER OF MATERIAL</b>	<b>UL</b>
<b>1</b>	<b>CORE</b>	<b>Mn-Zn</b>	-----	<b>JIANUO</b>	<b>N/A</b>
			-----	<b>DMEGC</b>	<b>N/A</b>
<b>2</b>	<b>WIRE</b>	<b>SFT-EI/AIWJ</b>	<b>220°C</b>	<b>WELL ASCENT ELECTRONIC (GANZHOU) CO LTD</b>	<b>E318511</b>
		<b>@*xEI/AIW</b>	<b>220°C</b>	<b>ZHUHAI SUNTEK WIRE CO., LTD.</b>	<b>E234867</b>
<b>3</b>	<b>TERMIAL</b>	<b>C1100</b>	-----	<b>MINGSCHIN</b>	<b>N/A</b>
		<b>C1100</b>	-----	<b>TIANQI</b>	<b>N/A</b>
<b>4</b>	<b>EPOXY</b>	<b>6911 G2</b>	<b>150°C</b>	<b>MIANYANG WELLS</b>	<b>N/A</b>
		<b>G 107</b>	<b>150°C</b>	<b>ECHOE</b>	<b>N/A</b>

### RECOMMENDED SOLDERING PROFILE

Part No. **MHW2009SG7R0KA**

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