

ECN/PCN No.: M1177

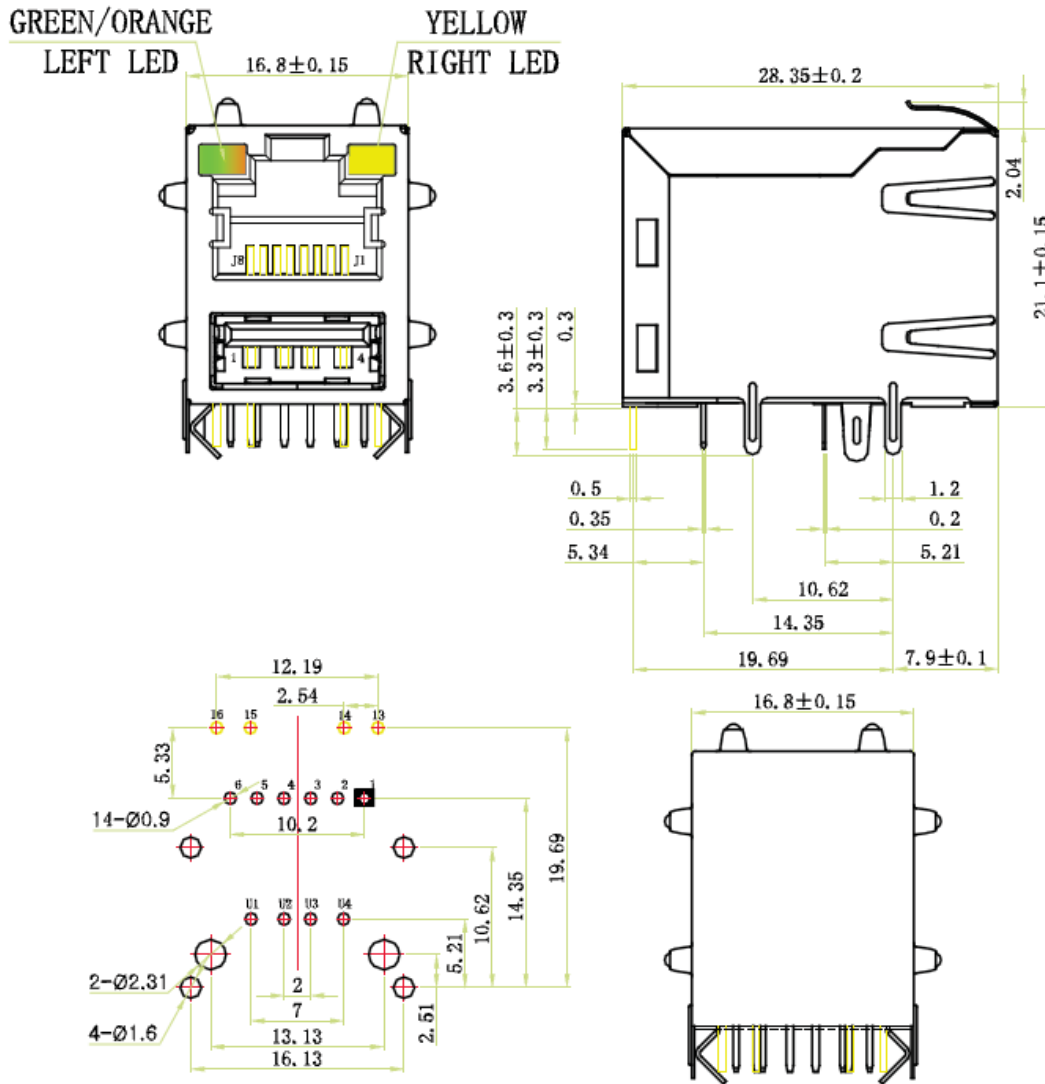
For Manufacturer			
<b>Product Description:</b> <b>RJ45 10/100 Base-T / 1 X USB Combo, w/ LEDs, Ext Temp</b>	<b>Abracon Part Number / Part Series:</b>  <p style="text-align: center;"><b>ARJ-169</b></p>	<input type="checkbox"/> Documentation only <input checked="" type="checkbox"/> ECN <input type="checkbox"/> EOL	<input type="checkbox"/> Series <input checked="" type="checkbox"/> Part Number(s)
<b>Affected Revision:</b> <p style="text-align: center;">B</p>	<b>New Revision:</b> <p style="text-align: center;">C</p>	<b>Application:</b>	<input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety

Prior to Change:

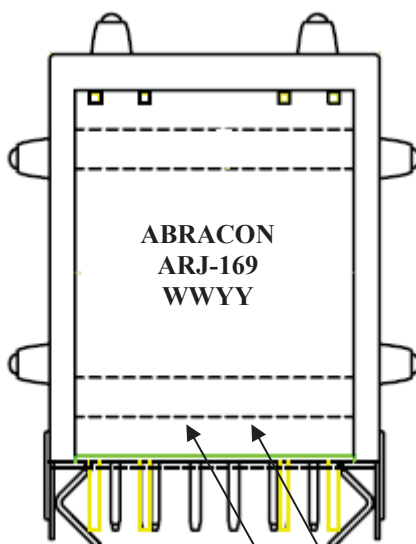
**1.0 Standard Electrical Specifications**

Parameters	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-40		+85	°C	
Storage Temperature	-40		+85	°C	
Turn Ratio (± 3%)	1CT:1CT				Tx
	1CT:1CT				Rx
Inductance (OCL)	350			μH	100KHz/0.1V@8mA
Insertion Loss			-1.0	dB	1-100MHz
Return Loss	-18			dB	1-10MHz
	-16				10-30MHz
	-14				30-60MHz
	-12				60-80MHz
	-10				80-100MHz
Cross Talk	-35			dB	1-100MHz
CMR	-35			dB	1-100MHz
Hi-Pot	1500Vrms/1mA/1Sec				Pri to Sec

**4.0 Mechanical Dimensions**



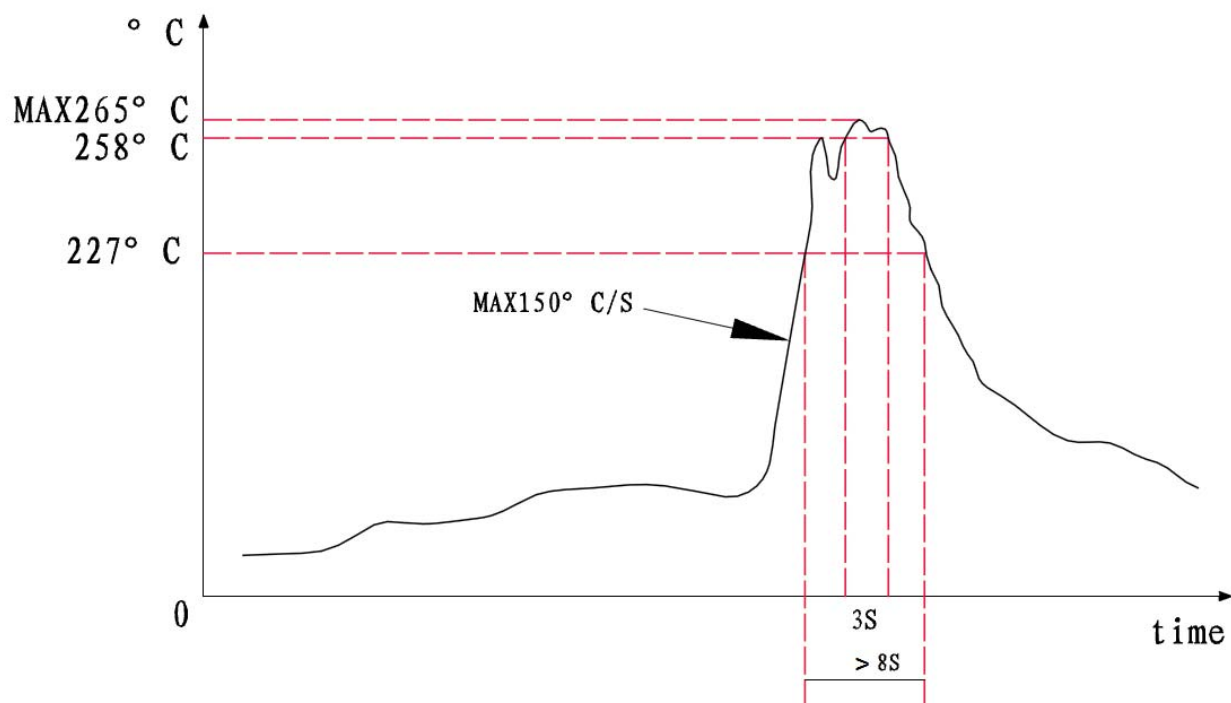
**6.0 Marking**



YY: Year: E.g. 15 for 2015

WW: Week: E.g. 15 for the 15<sup>th</sup> week of the year.

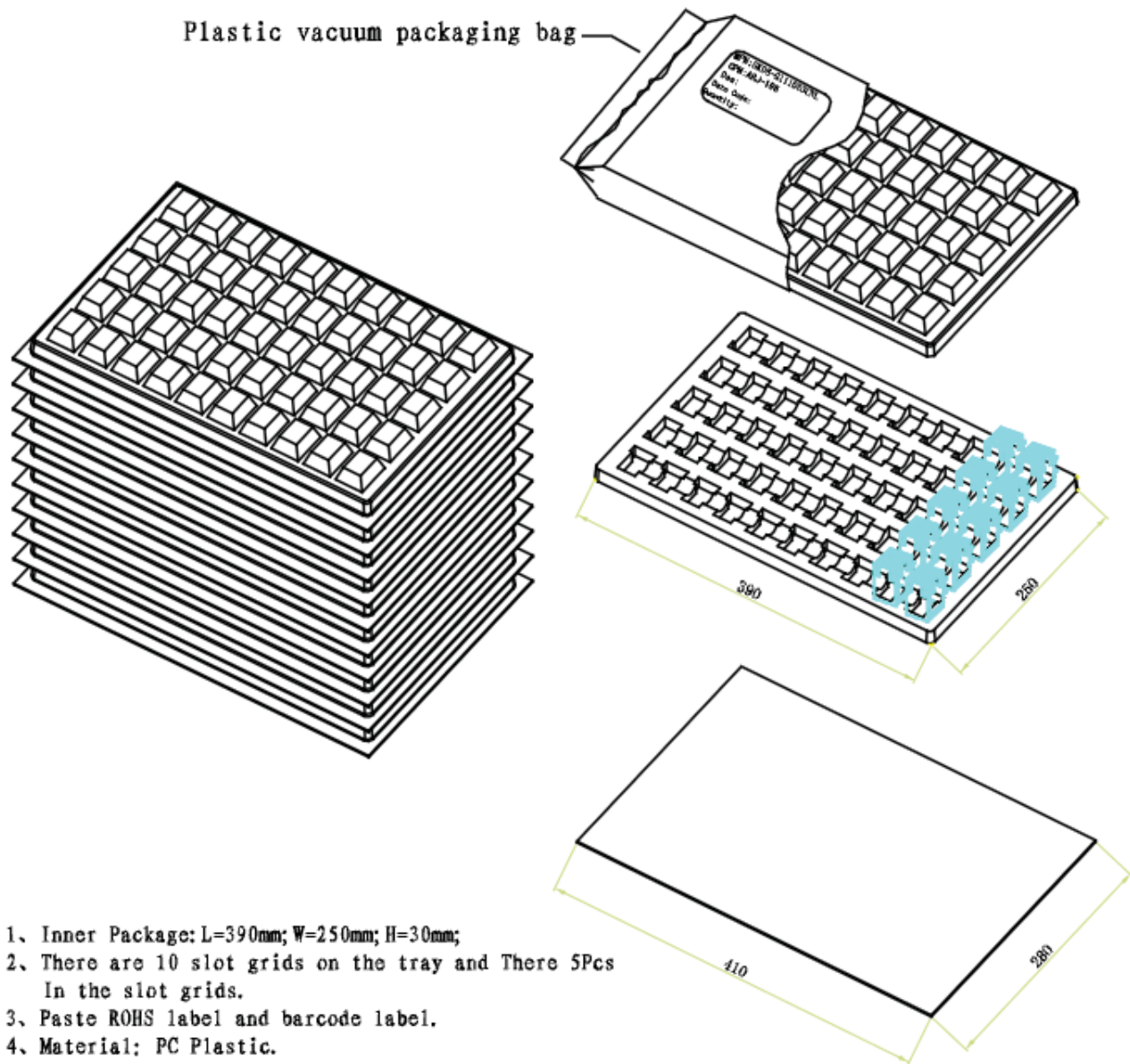
**7.1 DIP Wave Soldering Profile**



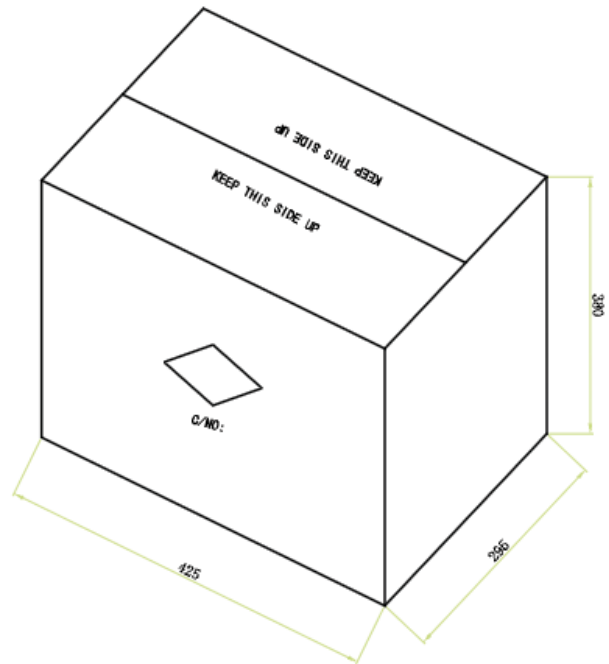
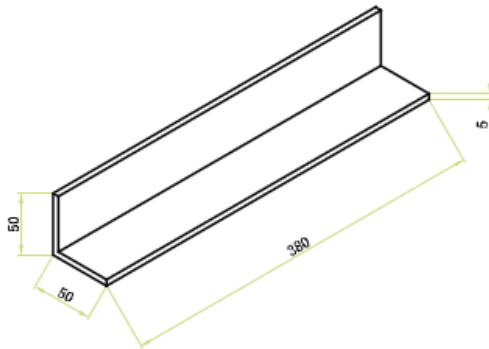
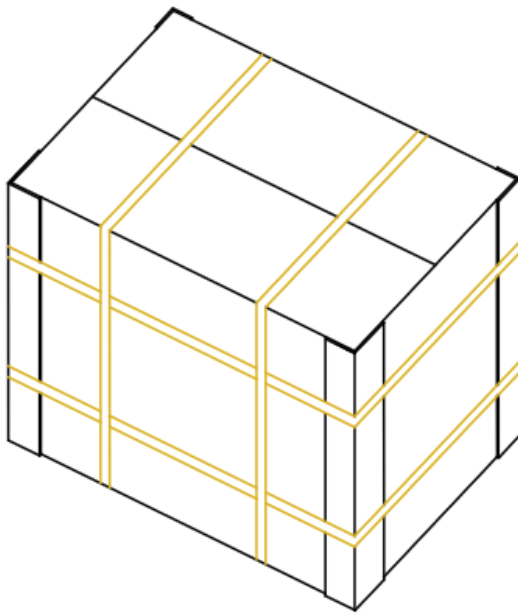
Peak temperature(Tp) : 265°C  
 Peak temperature(Tp) time : 3sec max

**8.0 Packing: 50pcs/tray**  
**Weight: 12.1 grams / pcs**

**Packing Material: PC Plastic**



Outer carton unit (optional): 500 pcs/10 trays/box



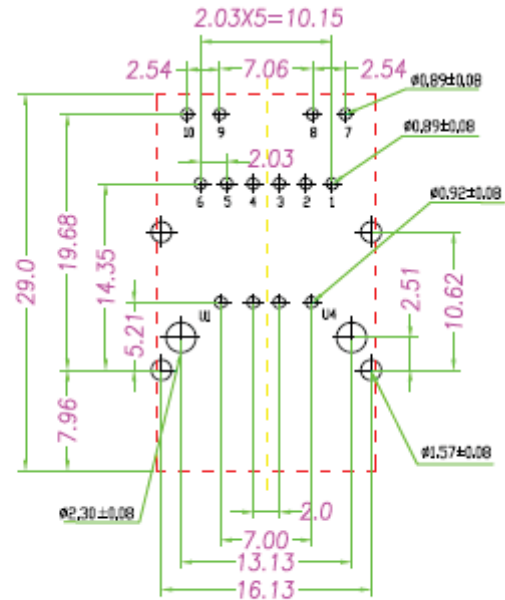
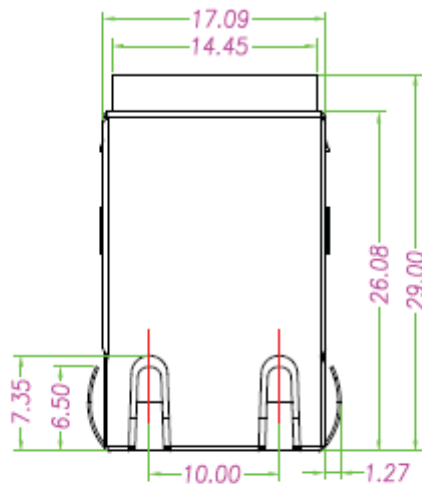
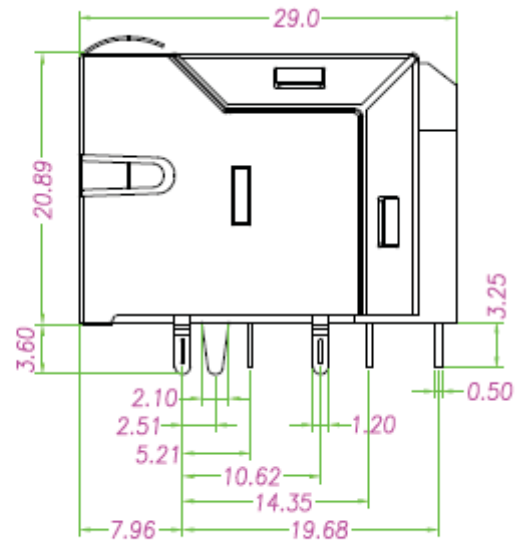
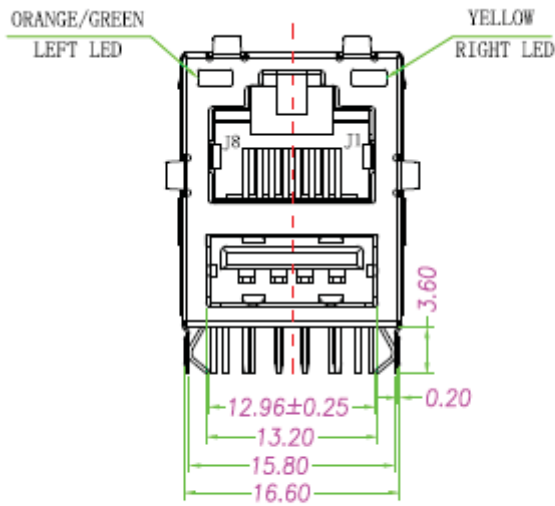
1. Package Box : L=425mm; W=295mm; H=380mm;
2. Package Box contain 10 PCS inner package Trays.
3. Material: US CARD+kraft papers.
4. There are 500 PCS products in the Package Box.

After Change:

### 1.0 Standard Electrical Specifications

Parameters	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-40		+85	°C	
Storage Temperature	-40		+85	°C	
Turn Ratio ( $\pm 3\%$ )	1CT:1CT				Tx
	1CT:1CT				Rx
Inductance (OCL)	350			$\mu$ H	100KHz/0.1V@8mA
Insertion Loss			-1.0	dB	1-100MHz
Return Loss	-18			dB	1-30MHz
	-16				30-60MHz
	-12				60-80MHz
	-10				80-100MHz
Cross Talk	-35			dB	1-100MHz
CMR	-35			dB	1-100MHz
Hi-Pot	1500Vrms/0.5mA/60Sec				Pri to Sec

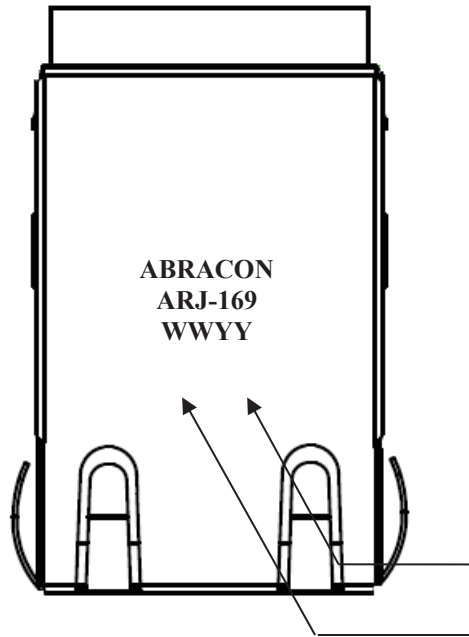
**4.0 Mechanical Dimensions**



**Suggested PCB Layout (Top View)**

**Dimensions: mm (Unless otherwise specified, all tolerances are ±0.25)**

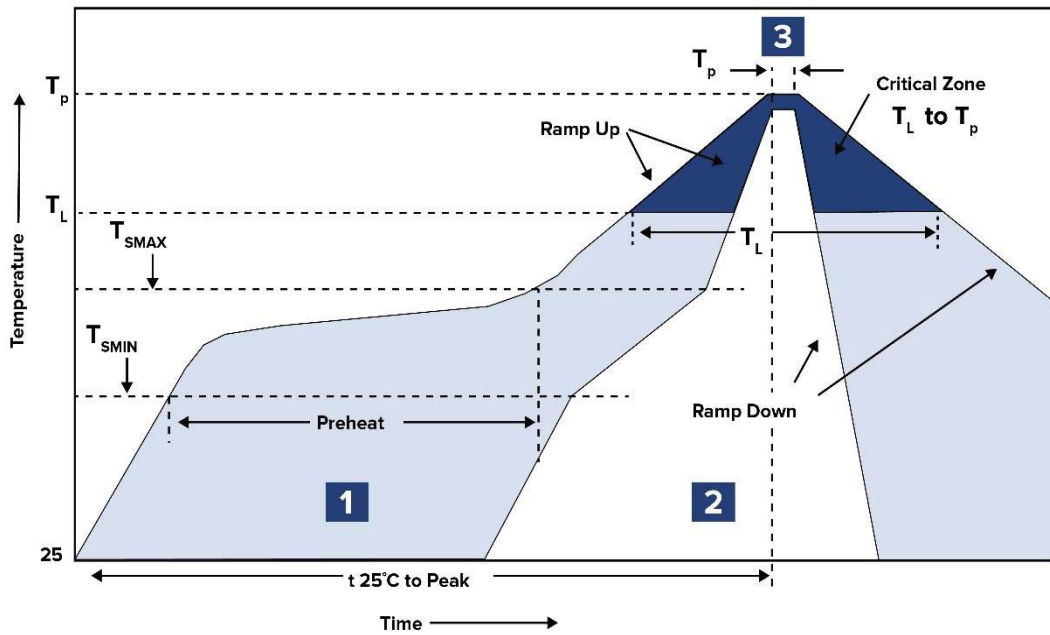
**7.0 Marking (changes to cosmetics and part marking location may occur)**



YY: Year: E.g. 15 for 2015  
15<sup>th</sup> week of the year.



## 7.1 Wave Soldering Profile

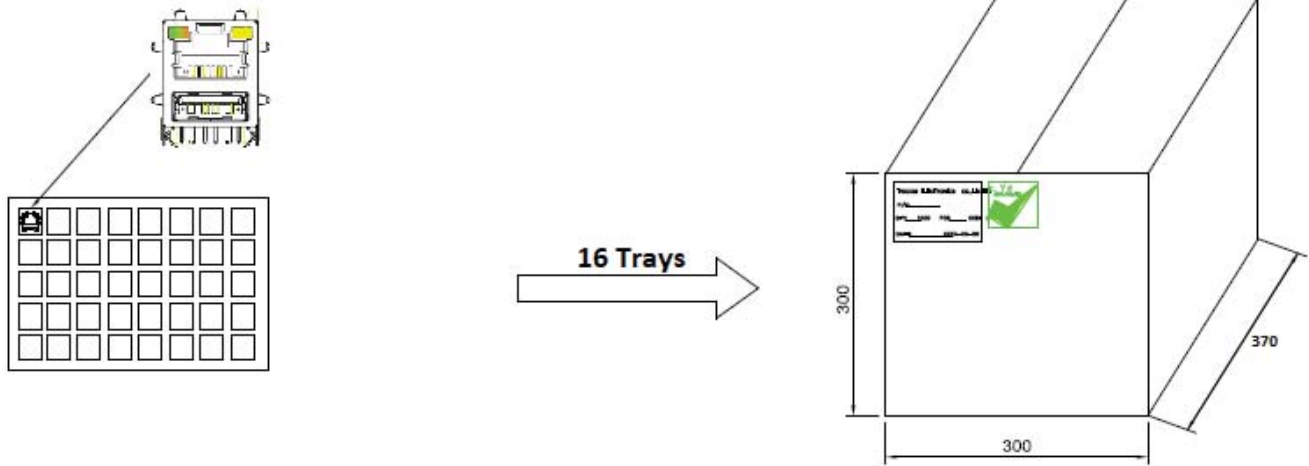


Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 180°C	60 ~ 120 sec.
2	Reflow	$T_L$ 227°C	8 sec.
3	Peak heat	$T_P$ 265°C	3 sec. MAX

**8.0 Packaging**

**Bulk/Tray (40pcs/tray, 16 trays/carton)**

**Carton Size : 370 X 300 X 300 mm, weight is 9.5Kg**



**Dimensions: mm**

Cause/Reason for Change:  
Adding additional production line. Updating graphics for datasheets.

### Change Plan

Effective Date: 7/15/2020	Additional Remarks:
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Change Declaration:  
No changes described in this document impact the products form, fit or function.

Issued Date: 7/15/2020	Issued By:	Issued Department:
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Approval:	Approval:	Approval:
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### For Abracon EOL only

Last Time Buy (if applicable):	Alternate Part Number / Part Series:
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Additional Approval:	Additional Approval:	Additional Approval:
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### Customer Approval (If Applicable)

Qualification Status:  
 Approved  Not accepted  
*Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.*

Customer Part Number:	Customer Project:
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Company Name:	Company Representative:	Representative Signature:
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Customer Remarks: