

RJ45 10 Base-T Jack with Magnetic Module

ARJ11A

RoHS/RoHS II Compliant



16.26 x 13.84 x 21.59mm

FEATURES:

- Available with or without LED
- Suitable CAT 5 & 6 cable and UTP
- Comply IEEE 802.3ab
- LAN Magnetic with RJ4
- Suitable for RoHS compliant reflow

APPLICATIONS:

- 10Base-T LAN
- NIC, LoM and PC

STANDARD SPECIFICATIONS at 25°C

Operating temperature range: 0°C to +70°C Storage temperature range: -40°C to +125°C

Part Number	Turns Ratio TX/RX (±5%)	EMI fingers	LED (L/R)	Insertion Loss (dB Max)	
				1-10MHz	
ARJ11A-MASA-KT-2	1CT:1.41/1CT:1	No	---	-1	
ARJ11A-MASA-MU-2	1CT:1CT/1CT:1CT	No	---	-1	
ARJ11A-MBSC-A-B-FMU2	1CT:1CT/1CT:1CT	No	G/Y	-1	
ARJ11A-MASD-MU-2	1CT:1CT/1CT:1CT	No	---	-1	
ARJ11A-MASE-MU2	1CT:1CT/1CT:1CT	No	---	-1	
ARJ11A-MASF-LT2	1CT:1/1CT:1	No	---	-1	
ARJ11A-MASG-LT2	1CT:1/1CT:1	No	---	-1	
ARJ11A-MASH-KU2	1.414:1CT/1CT:1CT	No	---	-1.15	
ARJ11A-MCSI-B-A-EKU2	1CT:1.41CT/1CT:1CT	Yes	Y/G	-1	
ARJ11A-MASJ-MU2	1CT:1CT/1CT:1CT	No	---	-1	
ARJ11A-MASK-PU2	1:2CT/1CT:1CT	No	---	-1.15	
ARJ11A-MASL-QU2	1:1.414CT/1CT:1CT	No	---	-1.15	
ARJ11A-MASM-RT2	1CT:2.5/1CT:1	No	---	-1	
ARJ11A-MDSN-MU2	1CT:1CT/1CT:1CT	Yes	---	-1	
ARJ11A-MDSO-MU2	1CT:1CT/1CT:1CT	Yes	---	-1	

Part Number	Attenuation TX/RX (dBMIN)				Return Loss TX & RX @100Ω±15Ω (dB MIN)		Crosstalk (dB MIN)	CMR (dB MIN)	Hipot (Vrms) 0.5mA, 2sec
	20MHz	25MHz	30MHz	40MHz	1-10 MHz	5- 10MHz	1-10MHz	30MHz	1500
ARJ11A-MASA-KT-2	-7/-5	-18/-11	-28/-16	-33/-26	—	-13.5	-30	-30	1500
ARJ11A-MASA-MU-2	-5/-4.2	-18/-11	-28/-16	-33/-26	—	-13.5	-30	-30	1500
ARJ11A-MBSC-A-B-FMU2	-5/-4.2	-18/-11	-28/-16	-33/-26	—	-14	-30	-30	1500
ARJ11A-MASD-MU-2	-5/-4.2	-18/-11	-28/-16	-33/-26	—	-15	-30	-30	1500
ARJ11A-MASE-MU2	—	—	-30/-20	—	-15	—	-30	—	1500
ARJ11A-MASF-LT2	-5/-4.2	-18/-11	-28/-16	-33/-26	—	-13.5	-30	—	1500
ARJ11A-MASG-LT2	-5/-4.2	-18/-11	-28/-16	-33/-26	—	-15	-30	—	1500
ARJ11A-MASH-KU2	-5/-4.2	-18/-11	-28/-16	-33/-26	—	-17 Typ	-30	-30	1500
ARJ11A-MCSI-B-A-EKU2	—	—	-30/-18	—	-15	—	-30	—	1500
ARJ11A-MASJ-MU2	-5/-4.2	-18/-11	-28/-16	-33/-26	—	-17 Typ	-30	-30	1500
ARJ11A-MASK-PU2	-5/-4.2	-18/-11	-28/-16	-33/-26	-13.5	—	-30	-30	1500
ARJ11A-MASL-QU2	-5/-4.2	-18/-11	-28/-16	-33/-26	-13.5	—	-30	-30	1500
ARJ11A-MASM-RT2	—	—	—	—	—	-15	—	-25	1500
ARJ11A-MDSN-MU2	-7/-6	-19/-14	-30/-20	-32/-31	—	-17	-30	—	1500
ARJ11A-MDSO-MU2	—	—	-30/-18	—	-15	—	-30	—	1500

CMR: Common Mode Rejection

Contact Abracon for more custom configurations. See options to build a custom configuration

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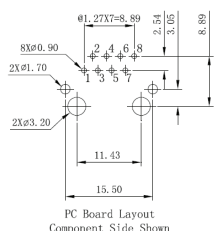
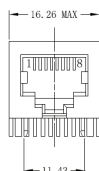
Revised: 03.06.13

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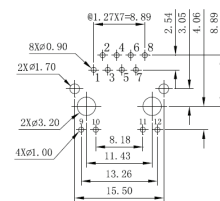
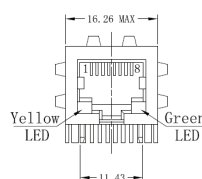
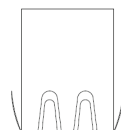
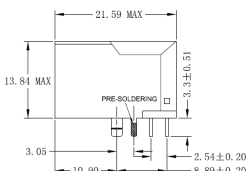
16.26 x 13.84 x 21.59mm

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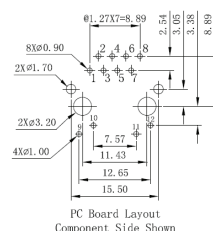
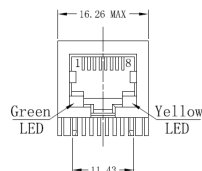
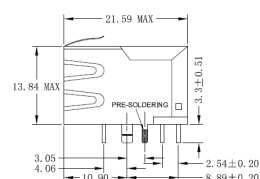
MECHANICAL DIMENSIONS



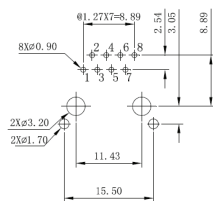
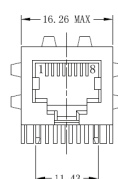
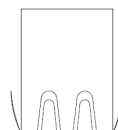
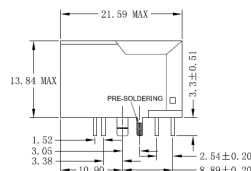
PC Board Layout
Component Side Show



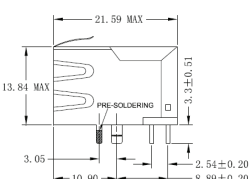
PC Board Layout
Component Side Shown



PC Board Layout
Component Side Shows



PC Board Layout
Component Side Shown



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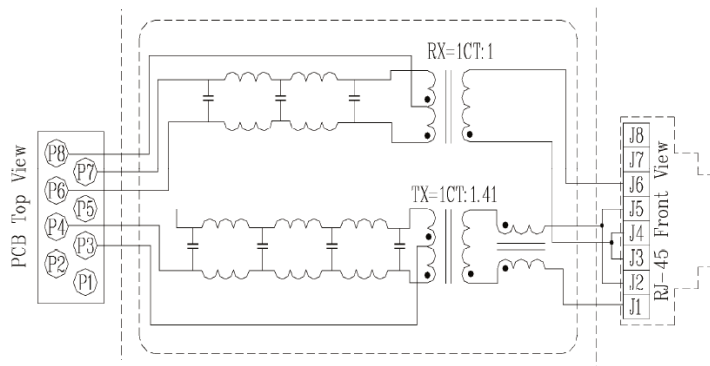
RoHS/RoHS II Compliant



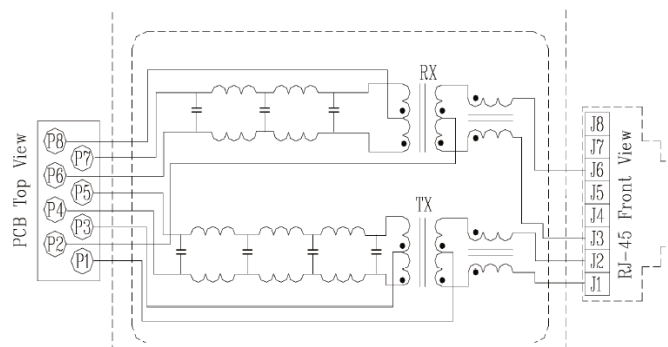
16.26 x 13.84 x 21.59mm

SCHEMATICS

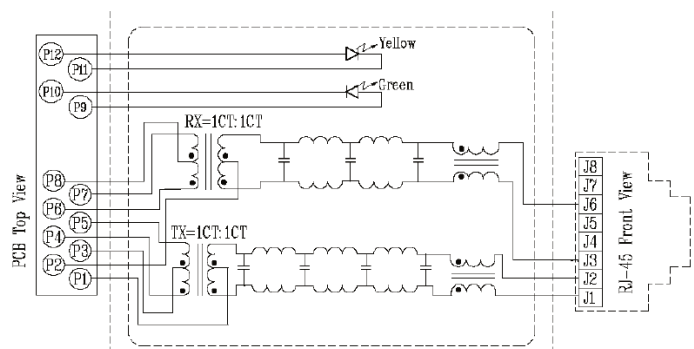
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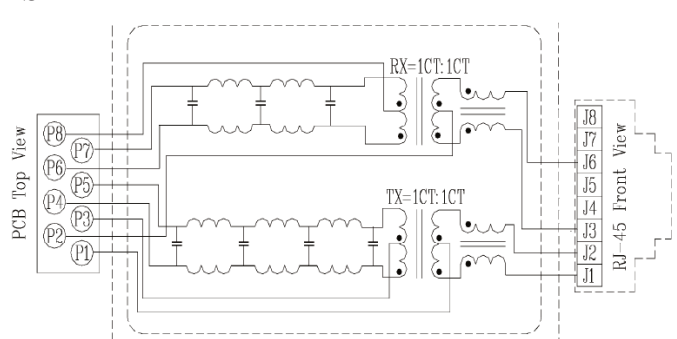
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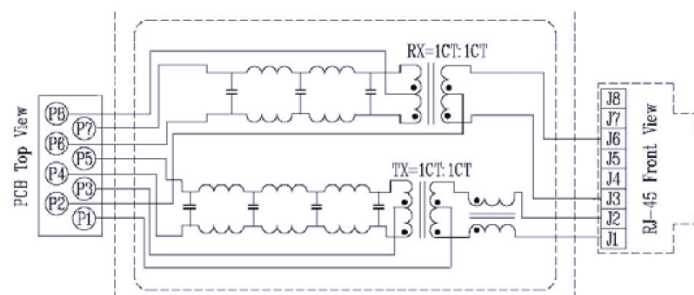
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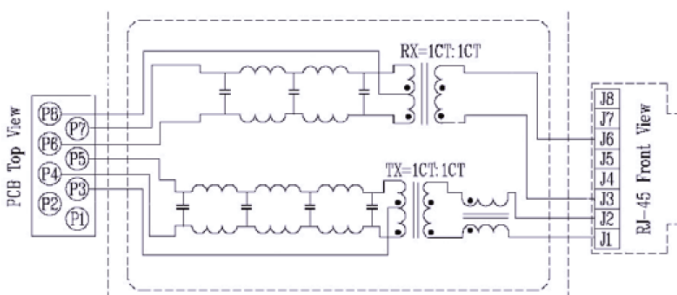
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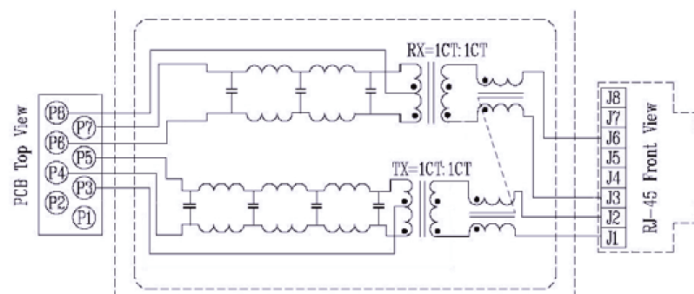
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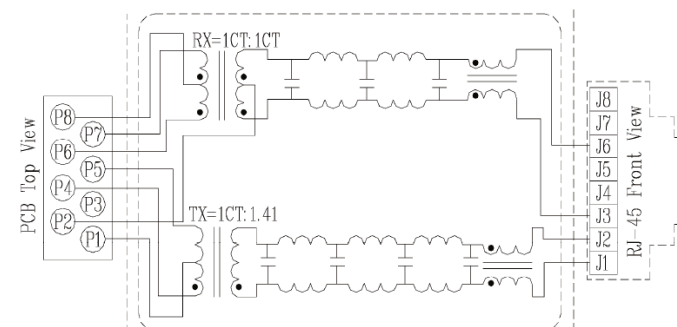
SF



SG



SH



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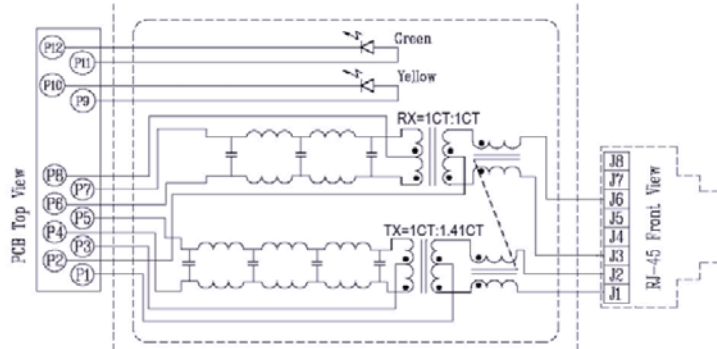
RoHS/RoHS II Compliant



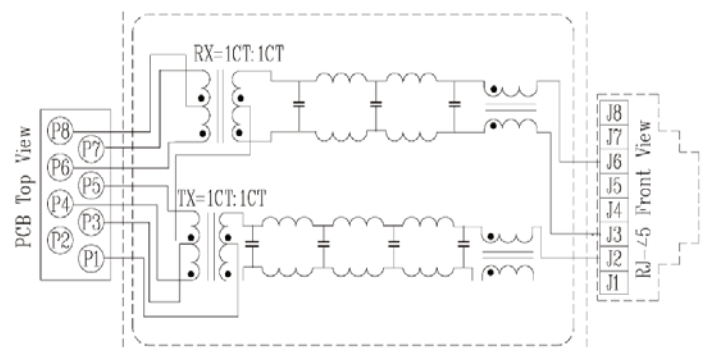
16.26 x 13.84 x 21.59mm

SCHEMATICS - continued

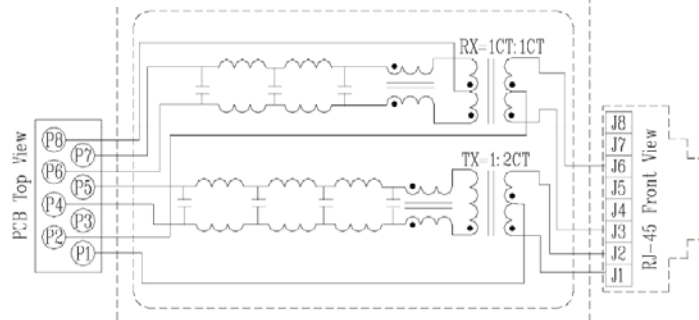
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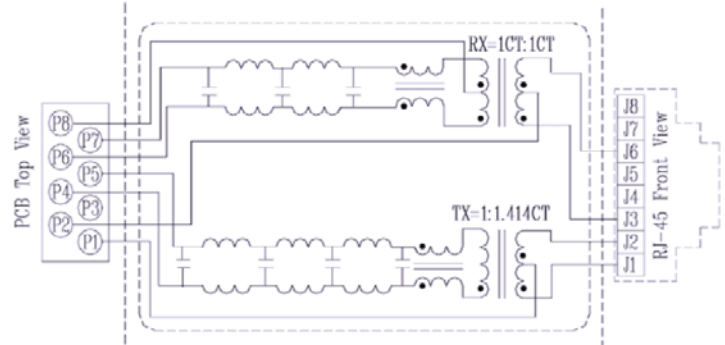
SJ



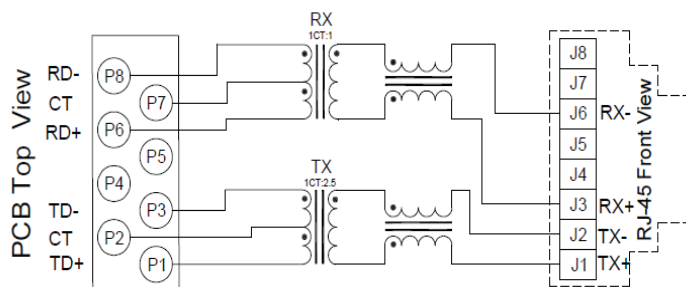
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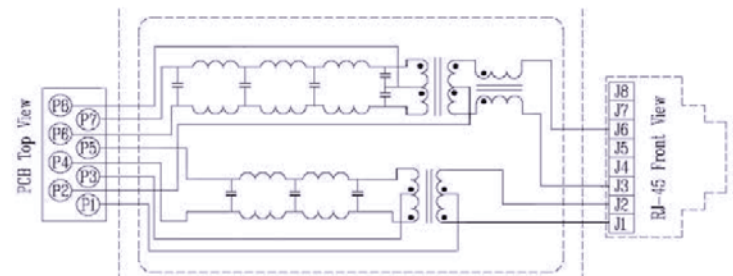
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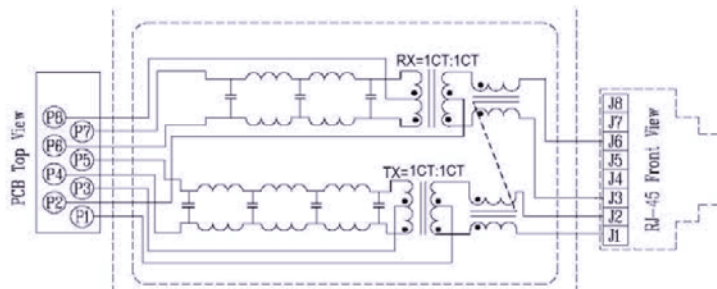
SM



SN



SO



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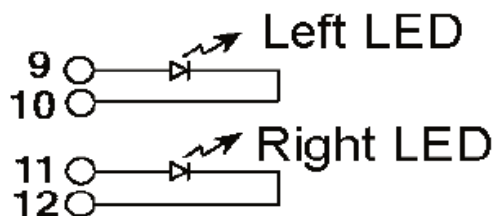
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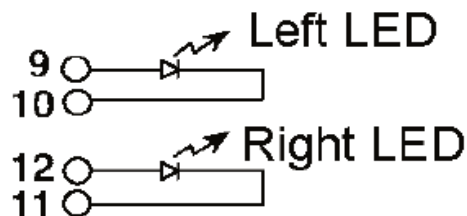
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LED POLARITY

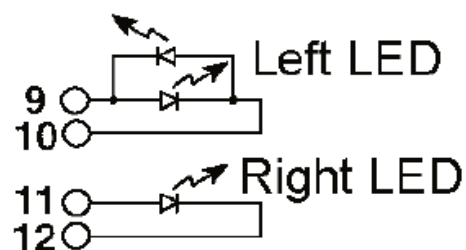
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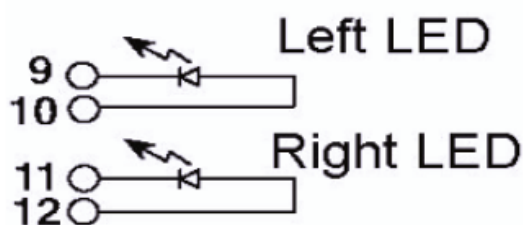
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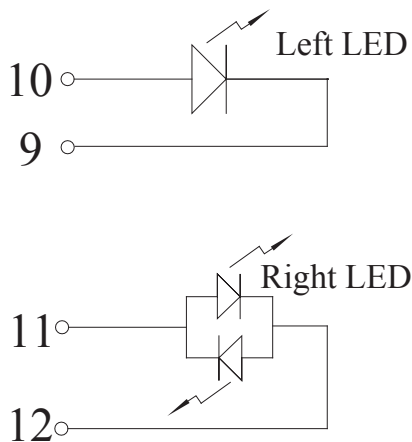
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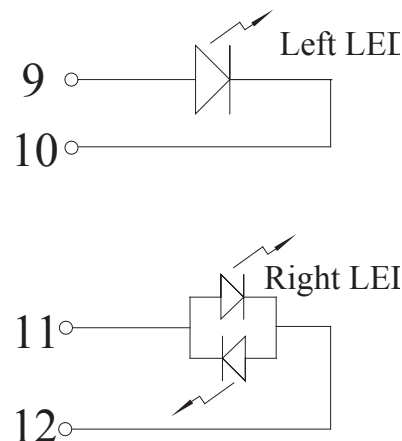
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I

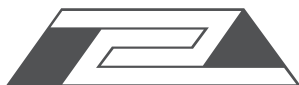


J



$V_{in}=2.1V_{dc}$ TYP.

2.5Vdc MAX.



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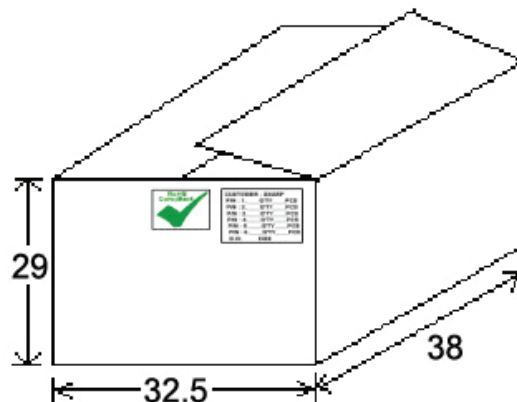
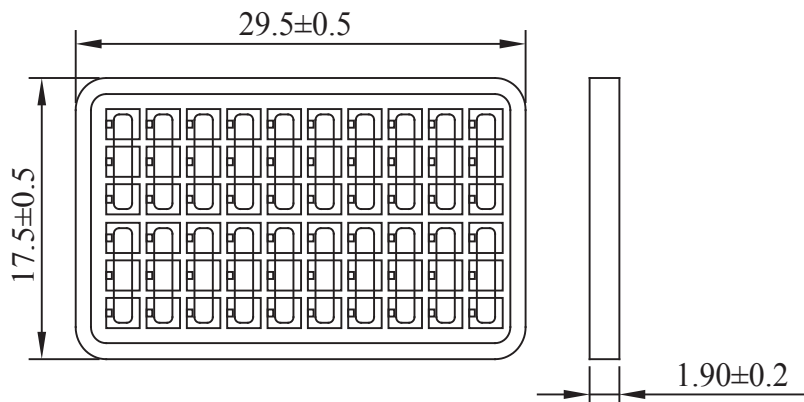


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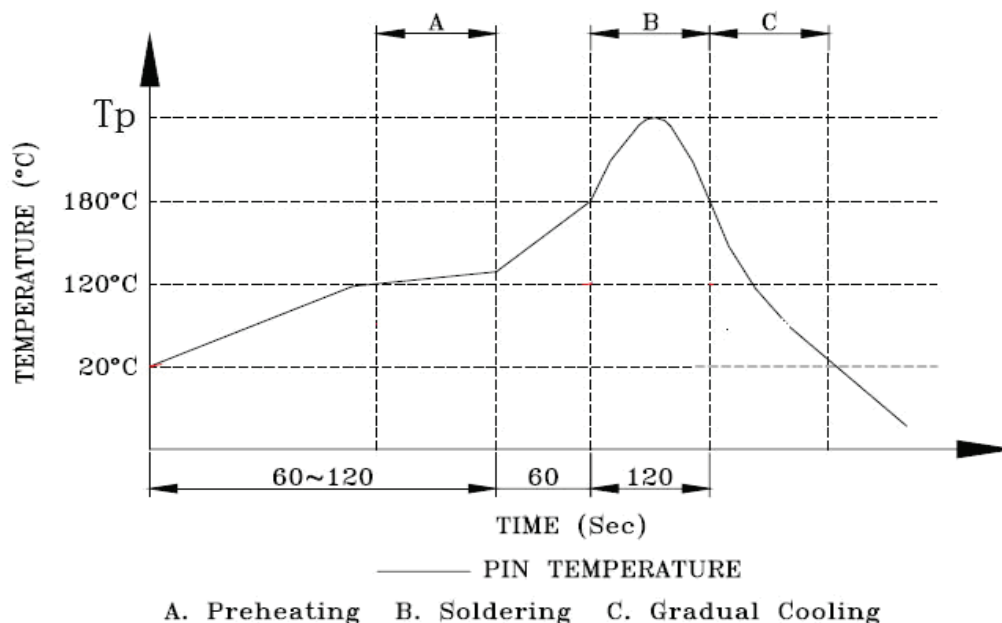
PACKING: 60pcs/tray

Packaging material: PET

Outer carton unit 1320 pcs/ 22 Trays/box



REFLOW PROFILE:

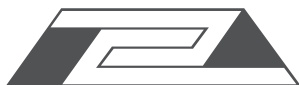


Peak temperature(Tp) : 250± 10°C

Peak temperature(Tp) time : 5sec max

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