

RJ45 10G Base-T with Dual USB 3.2 Type A ports



ARJG11C1 Series

Request Samples



Check Inventory



27.46 x18.95x30.32mm
RoHS/RoHS II Compliant
MSL Level = N/A

Features

- Integrated RJ45 connector with magnetics
- Supports 10 G Base-T Ethernet
- 1CT:1CT isolation transformer
- Integrated termination for EMI suppression

Applications

- Ethernet networking
- Switches and access points
- IP cameras

Electrical Specifications

Parameters	Minimum	Typical	Maximum	Units	Notes
Turn Ratio ($\pm 5\%$)	1CT:1CT				
Inductance	120			μH	100kHz, 0.1Vrms
Insertion Loss			-1.0	dB	1-100MHz
			-2.0		100-400MHz
			-3.0		400-500MHz
Return Loss	-22.0			dB	1-100MHz
	-16.0				100-200MHz
	-12.0				200-300MHz
	-10.0				300-400MHz
	-8.0				400-500MHz
Crosstalk	-28.0			dB	1-100MHz
	-19.0				100-500MHz
Common Mode rejection	-28.0			dB	1-100MHz
	-20.0				100-500MHz
CMDR	-30.0			dB	1-250MHz
	-22.0				250-500MHz
Hi-pot	2250 VDC min 60 Sec.				Pri to Sec

Operating Temperature: -40°C to +85°C

Storage Temperature: -40°C to +85°C

Operating life: 750 Cycles min

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



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Bee Cave, TX 78738
Phone: 512-371-6159 Fax: 512-351-8858
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REVISION Initial Release :
4/6/2026

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ISO9001-2015
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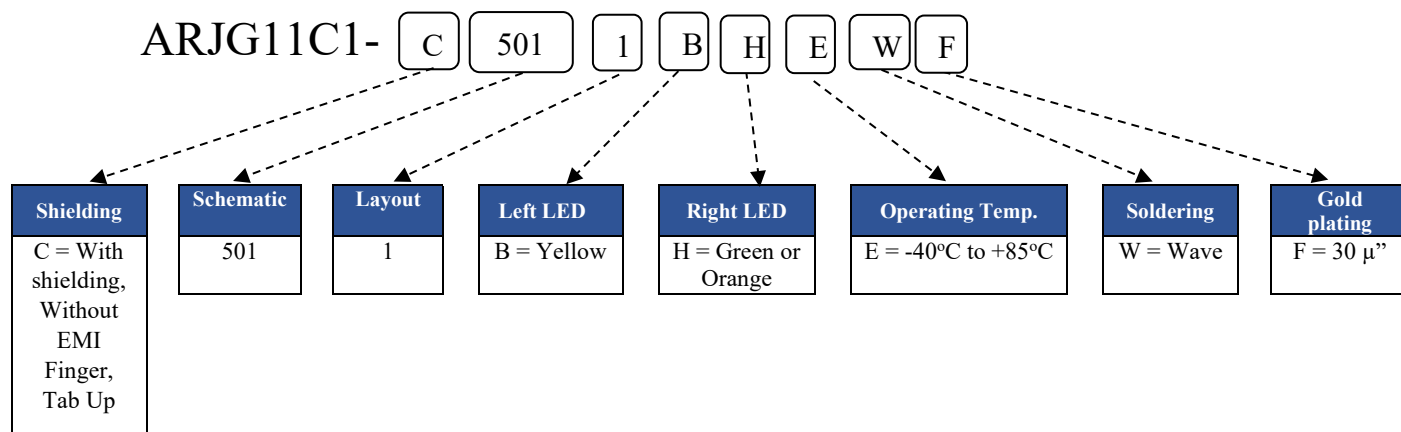
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Part Identification



*LED configurations and gold-plating options can be customized based on customer requirements.

Materials

Housing Material:

PBT RED 185C UL94 V-0

Insert Material:

LCP BLACK UL94 V-0

Contact pin Material:

WELDABLE NICKEL

SELECTIVE GOLD,30 MICRO-INCHS MIN IN CONTACT AREA

Shielding Material:

STAINLESS STEEL

USB3.0

- HOUSING: PBT BLUE 300C UL94 V-0
- SHIELD: Brass
- SHIELD PLATING: NICKEL
- CONTACT: PHOSPHOR BRONZE
- CONTACT PLATING: SELECTIVE GOLD,30 MICRO-INCHS MIN IN CONTACT AREA

Note: No material substitutions allowed without prior approval by customers in writing



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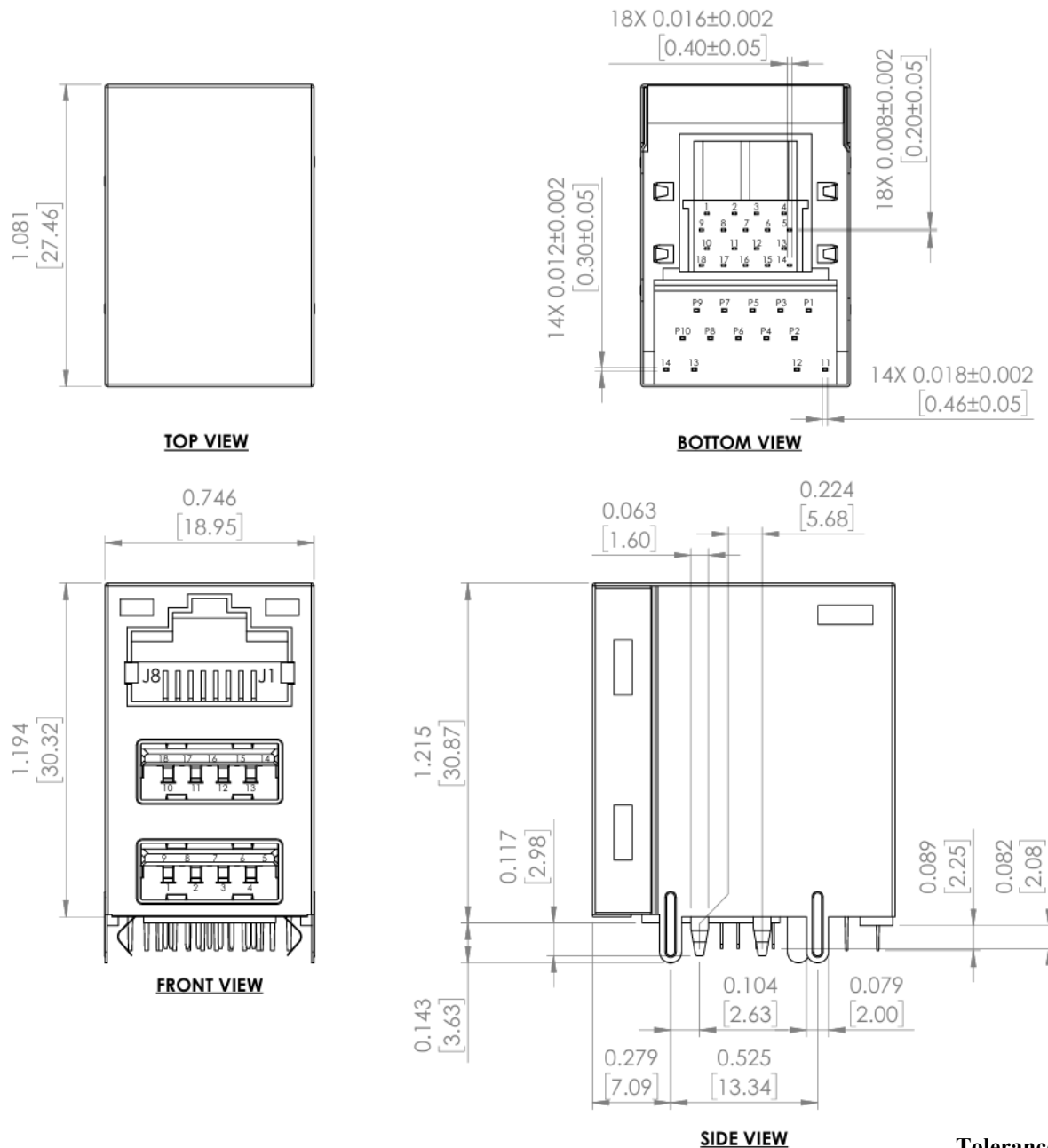
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Mechanical Dimensions



DIMENSIONS: INCHES [mm]

Tolerances

X.X	±0.30
X.XX	±0.25
X.XXX	±0.10
ANGLES	±1°



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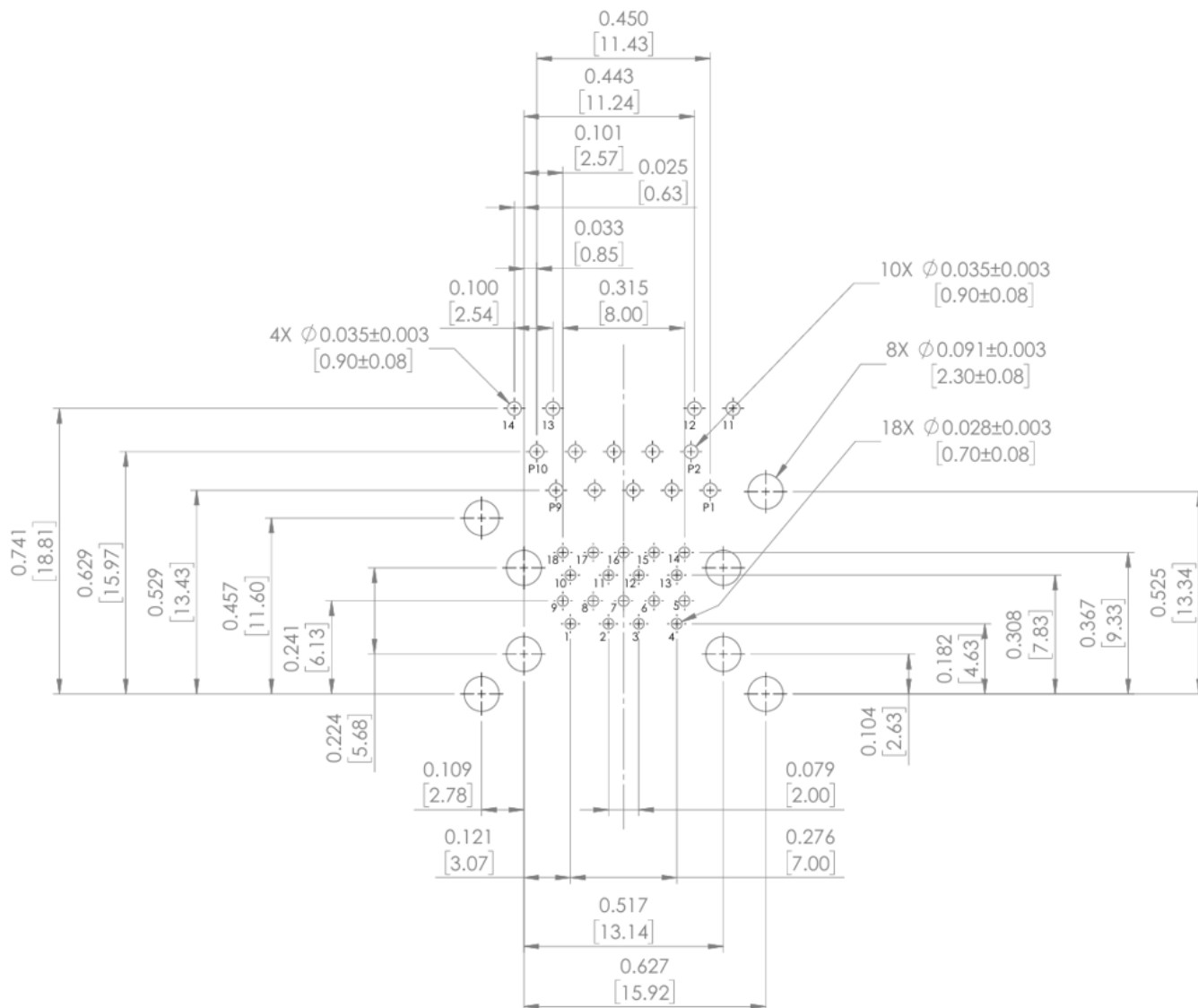
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RECOMMENDED LAND PATTERN



DIMENSIONS: INCHES [mm]



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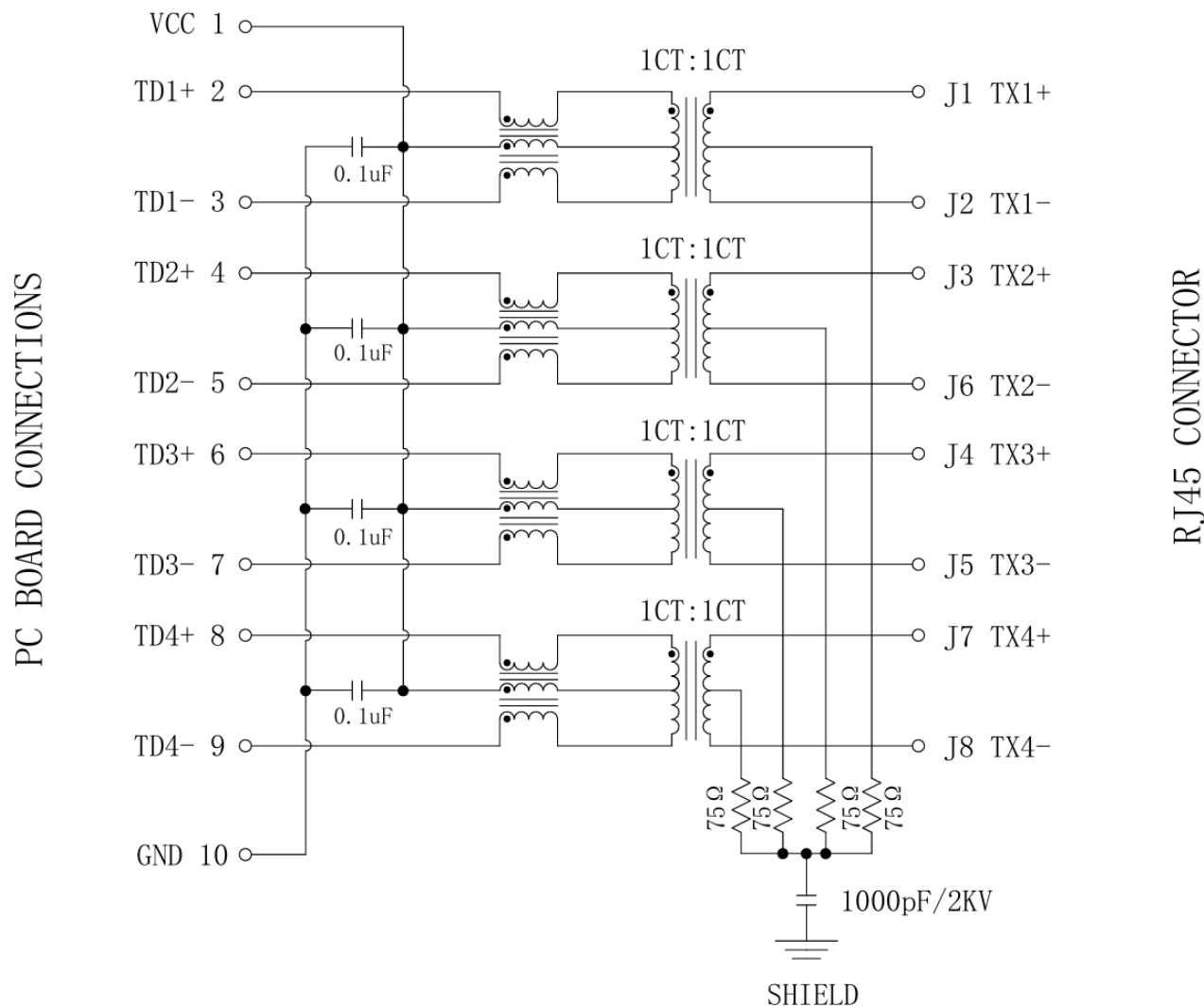
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Schematic

501:



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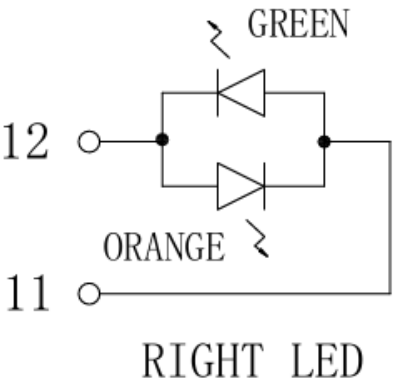
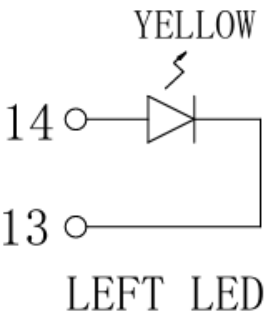
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LED polarity



EMITTING COLOR	λ_p (nm)	VF @IF=20mA	IR @VR=5V
ORANGE / GREEN	610 / 565	1.8~2.4V	10 μ A max
YELLOW	585	1.8~2.4V	10 μ A max

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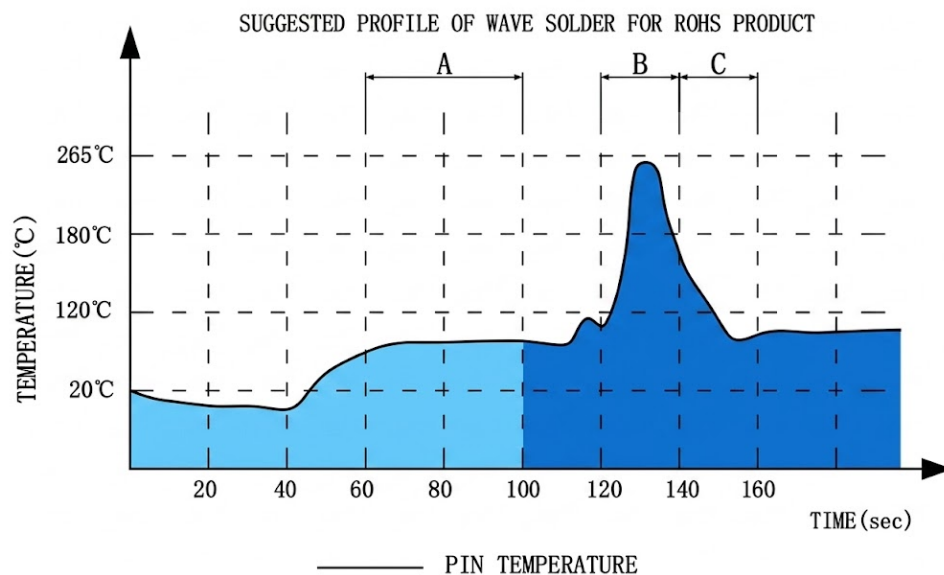
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Wave soldering Profile



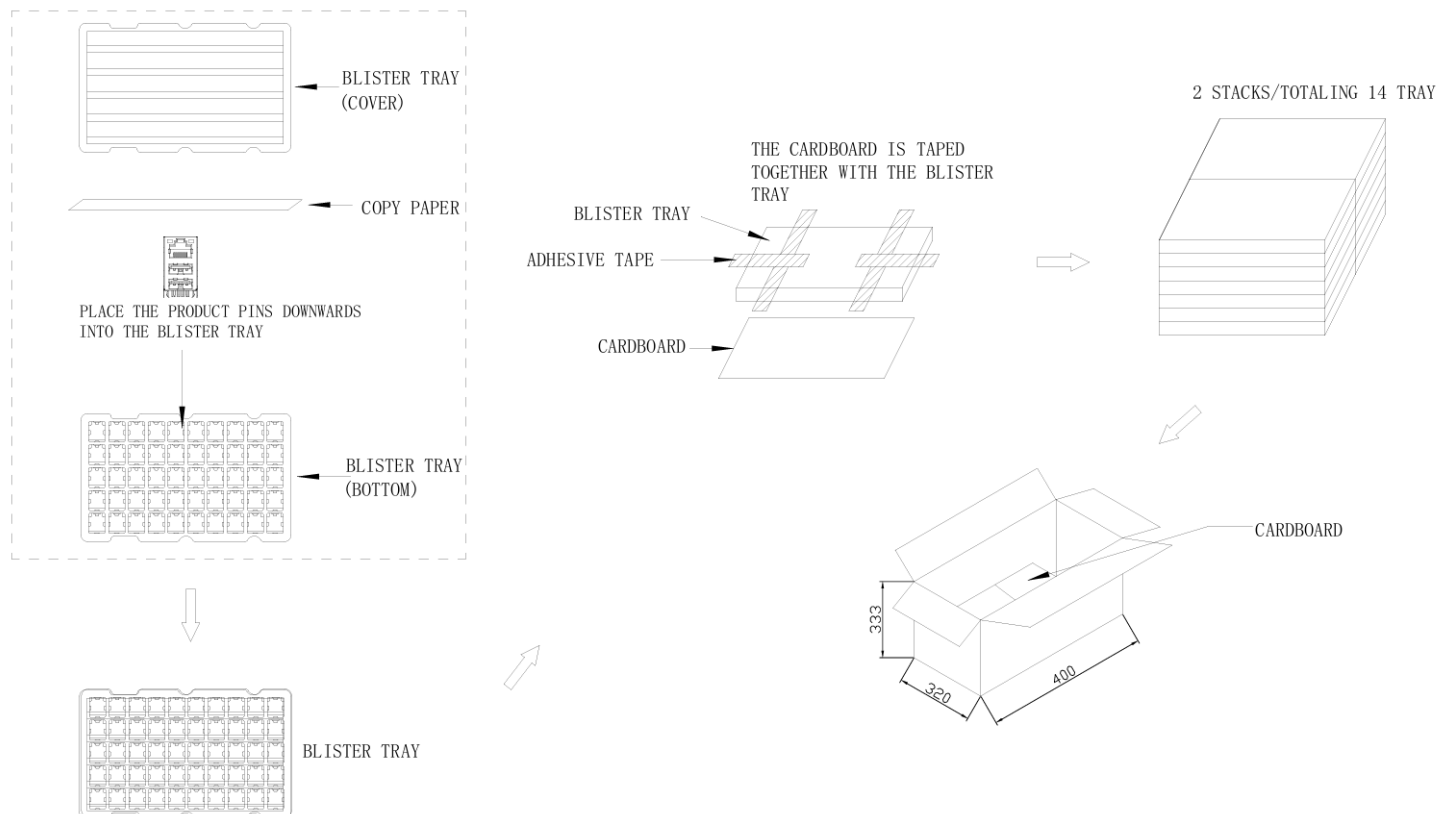
Zone	Description	Temperature	Times
A	Preheat	$T_{SMIN} \sim T_{SMAX}$ 25°C ~ 120°C	100 sec. MAX
B	Wave Peak Temperature	T_P 250°C	5 sec.
C	Cooling Rate	$T_{COOLING}$	-5°C/Sec

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Packing: 50pcs/tray
Carton Packing: 700Pcs/14tray/Carton
Carton Size: 400x320x333mm
Gross Weight: Approx. 14.33KG/Carton



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