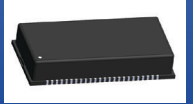


10/100/1000 BASE-T Dual Port SMD LAN Transformer Module



ALANM10002



30.9 x 15.2 x 5.5 mm
RoHS/RoHS II Compliant
MSL = 1

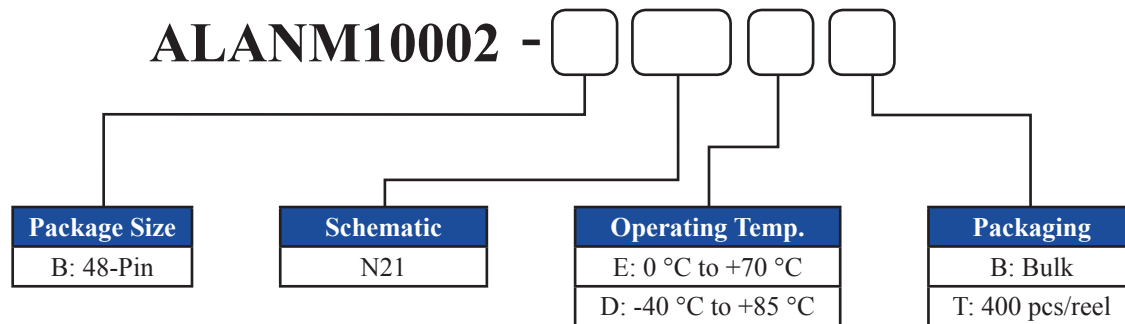
Features

- Uniform transformer windings
- Fully automated production lines
- Meets 802.3ab standards
- Dual Port
- Operating temperature range up to -40°C to +85°C
- RoHS Compliant
- 1CT:1CT TX and RX Transformers

Applications

- Gigabit Ethernet
- Servers, switches and routers
- IP cameras, surveillance, and phone
- Access points
- Industrial computers and robotics
- Networking and communications
- Broadcast video
- Set top box

Part Identification



10/100/1000 BASE-T Dual Port SMD LAN Transformer Module



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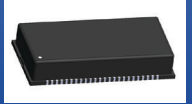
30.9 x 15.2 x 5.5 mm
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MSL = 1

Electrical Specifications at 25°C

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)				Crosstalk (dB Min)			CMRR (dB Min)			DCMR (dB Min)		
	0.5-100 MHz	1-40 MHz	60 MHz	80 MHz	100 MHz	0.5-40 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz
ALANM10002-BN21	1.5	18	16	12	10	40	37	33	42	37	33	42	37	33

Part Number	Inductance (uH Min)	Leakage Inductance (uH)	Interwinding Capacitance (pF Max)	DC Resistance (Ω Max)				Hi Pot (Vrms)	Weight (g)
				CT to TD	TD+ to TD-	CT to MX	MX+ to MX-		
ALANM10002-BN21	200	0.5	50	2	3.5	2.5	5.0	1500	3.4

10/100/1000 BASE-T Dual Port SMD LAN Transformer Module



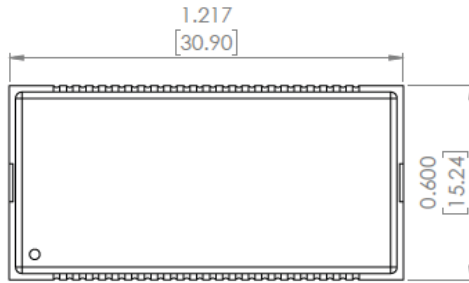
ALANM10002



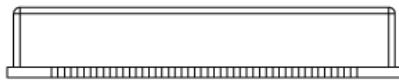
30.9 x 15.2 x 5.5 mm
RoHS/RoHS II Compliant
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Mechanical Dimensions

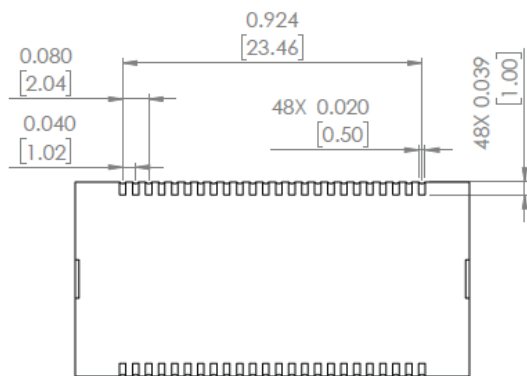
B: 48-pin



TOP VIEW

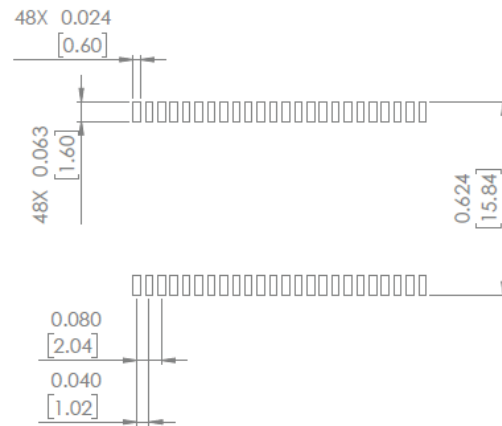


FRONT VIEW



BOTTOM VIEW

RECOMMENDED LAND PATTERN



SIDE VIEW

Unless otherwise specified, all tolerances are ± 0.25 in mm
Dimensions: inch/ [mm]

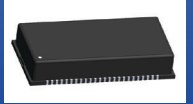


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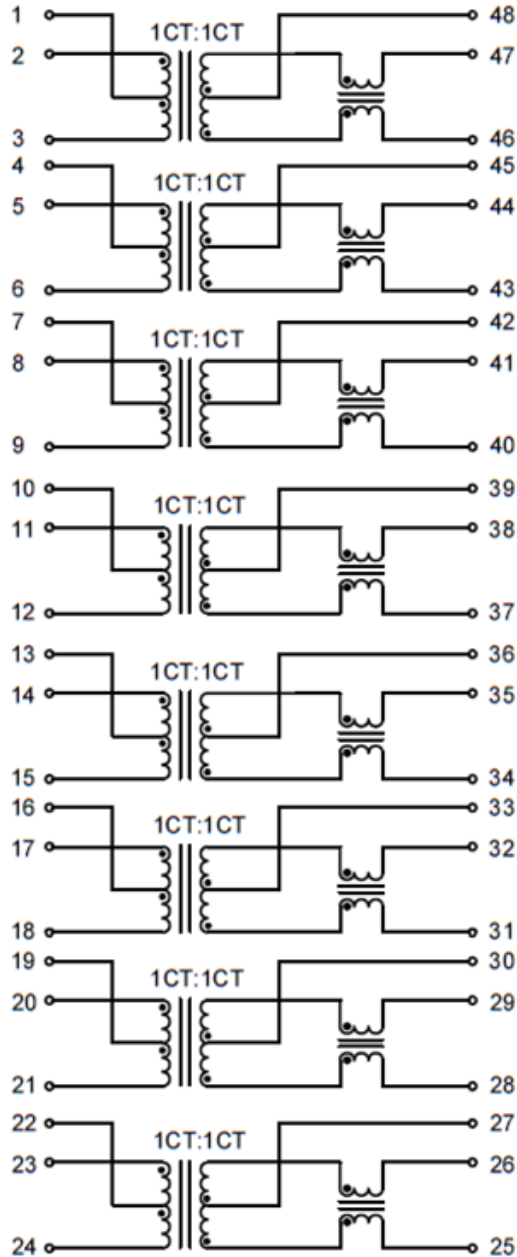


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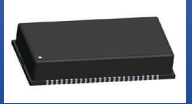
Schematics

48 - Pin

N21



10/100/1000 BASE-T Dual Port SMD LAN Transformer Module

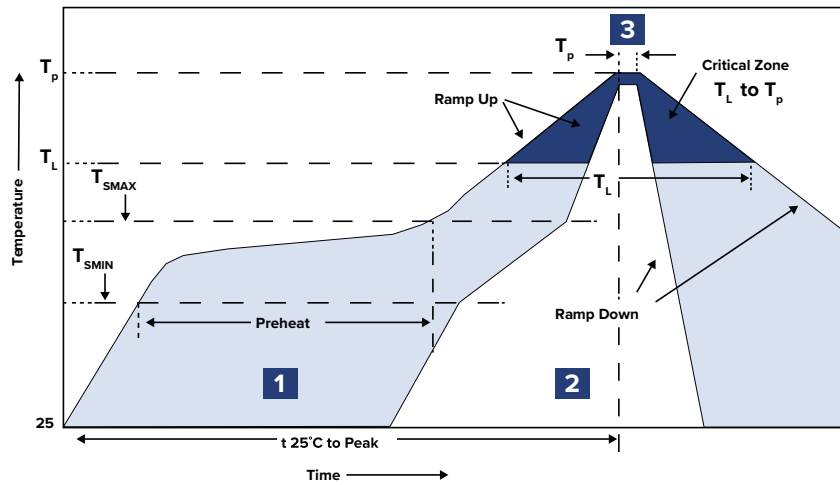


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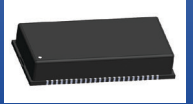
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Reflow Profile



Zone	Description	Temperature	Time
1	Preheat / Soak	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 180 sec.
2	Reflow	T_L 245°C	20 ~ 40 sec.
3	Peak heat	T_P 260°C±5°C	10 sec. MAX

10/100/1000 BASE-T Dual Port SMD LAN Transformer Module



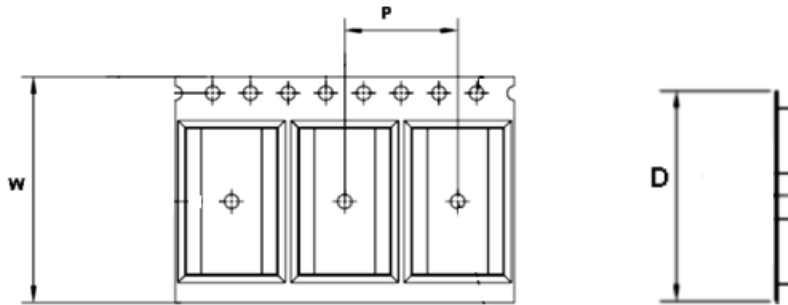
ALANM10002



30.9 x 15.2 x 5.5 mm
RoHS/RoHS II Compliant
MSL = 1

Packaging

Tape and Reel: 400 pcs/reel
Pieces Per Carton: 2000 pcs
Weight Per Carton: 9.0 kg (approx.)
Dimension of Carton: 345 x 345 x 290 mm



W	P	D
44.0	24.0	Ø330

Dimensions: mm

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