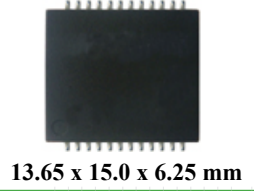


# 10G BASE-T LAN TRANSFORMER

**ALAN-10GBNL-30FB**

MSL – Moisture Sensitivity Level = 1

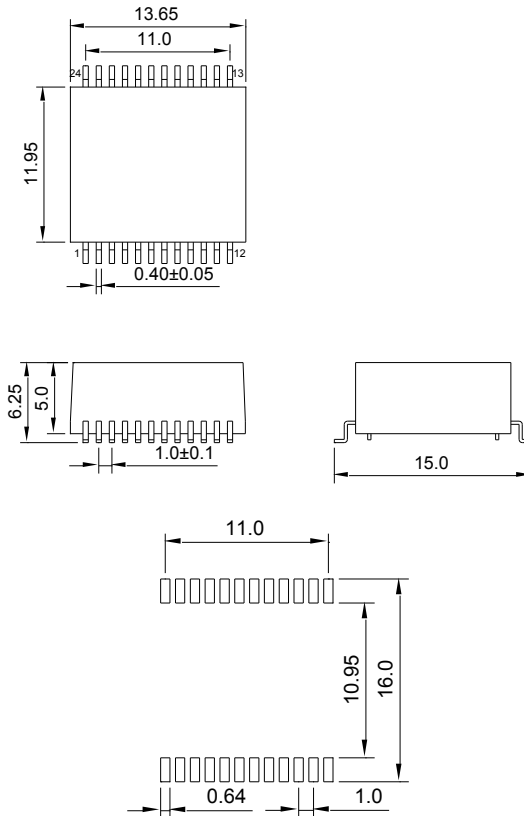
**RoHS**  
Compliant



## STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	0	-----	+70	°C	
Storage Temperature	-40	-----	+85	°C	
Turn Ratio RX (±3%)		1CT: 1CT			
Inductance (OCL)	180	-----	-----	uH	100KHz <sub>r</sub> /0.1V
Insertion Loss	-----	-----	-1.0	dB	1-300MHz
	-----	-----	-1.2		300-400MHz
	-----	-----	-2.0		400-500MHz
Return Loss	-18	-----	-----	dB	1-40MHz
	-17+10log(f/40MHz)	-----	-----		40-500MHz
Cross Talk	-----	-40	-----	dB	1-100MHz
	-----	-30	-----		100-500MHz
CDMR	-----	-22	-----	dB	1-500MHz
High Pot	1500Vrms/0.5mA/60Sec or 1650Vrms/0.5mA/2Sec				

## OUTLINE DRAWING:



Recommended Land Pattern

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

# 10G BASE-T LAN TRANSFORMER

ALAN-10GBNL-30FB

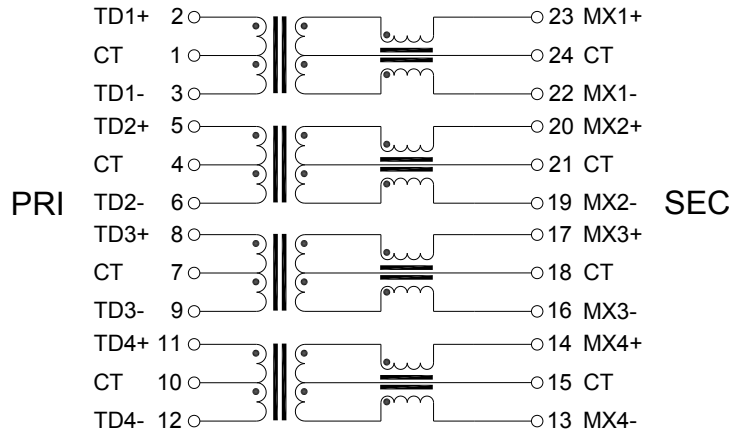
MSL – Moisture Sensitivity Level = 1

RoHS  
Compliant

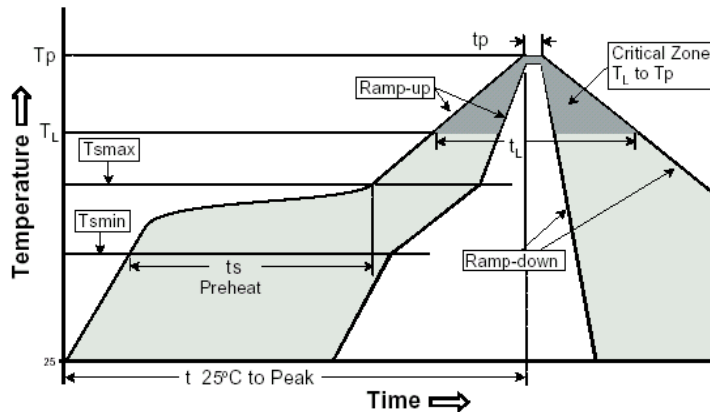
13.65 x 15.0 x 6.25 mm



## SCHEMATIC:



## REFLOW PROFILE:



Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate ( $T_{smax}$ to $T_p$ )	3°C /second max.
Preheat	
-Temperature Min ( $T_{smin}$ )	150°C
-Temperature Max ( $T_{smax}$ )	200°C
-Time ( $t_{smin}$ to $t_{smax}$ )	60-180 seconds
<b>Time maintained above:</b>	
-Temperature ( $T_L$ )	217°C
-Time ( $t_L$ )	60-150 seconds
Peak/Classification Temperature ( $T_p$ )	245±5°C
Time within 5°C of actual Peak Temperature ( $t_p$ )	20-40 seconds
Ramp-Down Rate	6°C /seconds max
Time 25°C to Peak Temperature	6 minutes max.

# 10G BASE-T LAN TRANSFORMER

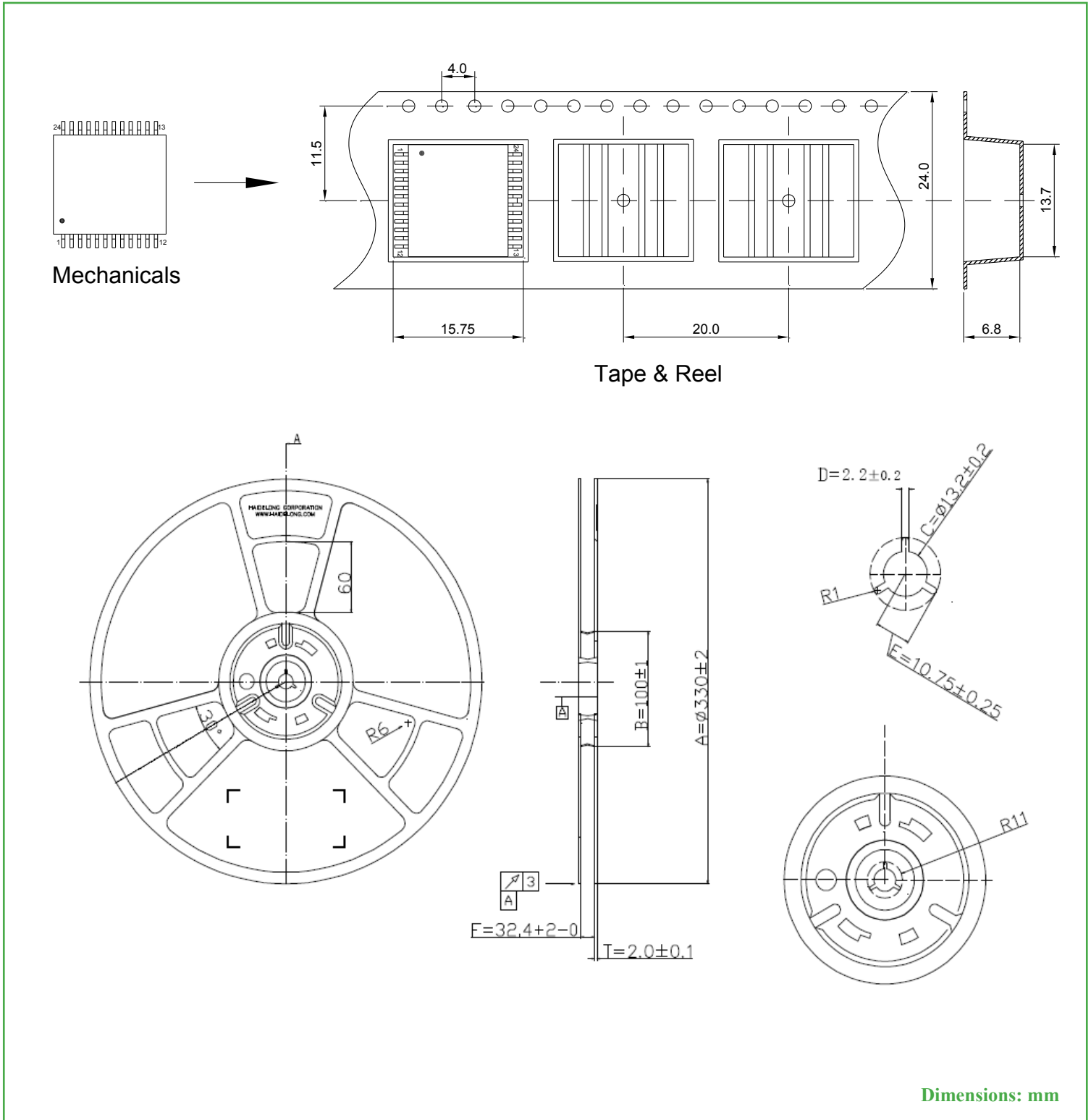
ALAN-10GBNL-30FB

RoHS  
Compliant

13.65 x 15.0 x 6.25 mm



TAPE & REEL: 400pcs/reel



Dimensions: mm

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