BMS TRANSFORMER

Automotive

iNRCORE FAMILY OF BRANDS

- AEC-Q200 Compliant
- Designed for use with ADI LTC6804/681X series, NXP MC33771/33772 and TI BQ79616
- Design Construction: Basic insulation per IEC 60664-1
- Creepage Distance: ≥15mm, per pollution 2 & material group 1
- Operating Temperature: -40°C to +125°C
- Storage Temperature: -55°C to +125°C
- Lead Finish: Sn100
- Moisture Sensitivity Level: 1

Electrical Specifications @ 25°C

Part Number	Turns Ratio (±5%) (1-3)/(6-4)	Inductance 100kHz, 0.1 Vrms (µH) MIN	Inductance 100kHz, 0.1 Vrms (µH) MAX	Insertion Loss (dB MAX) 4 MHz	Return Loss (dB MIN) 4 MHz	Dielectric Withstanding Voltage 60S MIN (VDC) (1-3) to (6-4)
RA1063NL	1CT:1CT	150	450	1.2	6	7640

NOTES:

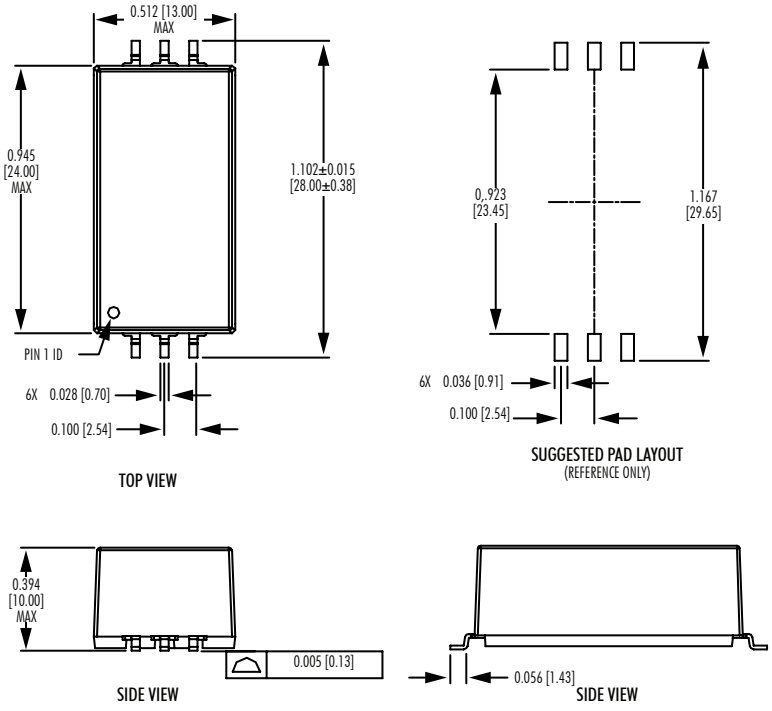
1. For Tape & Reel packaging, add "**T**" suffix at the end of the part number: i.e. **RA1063NLT**

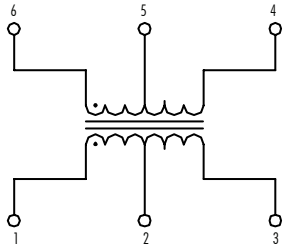
Mechanicals

Electrical Schematics

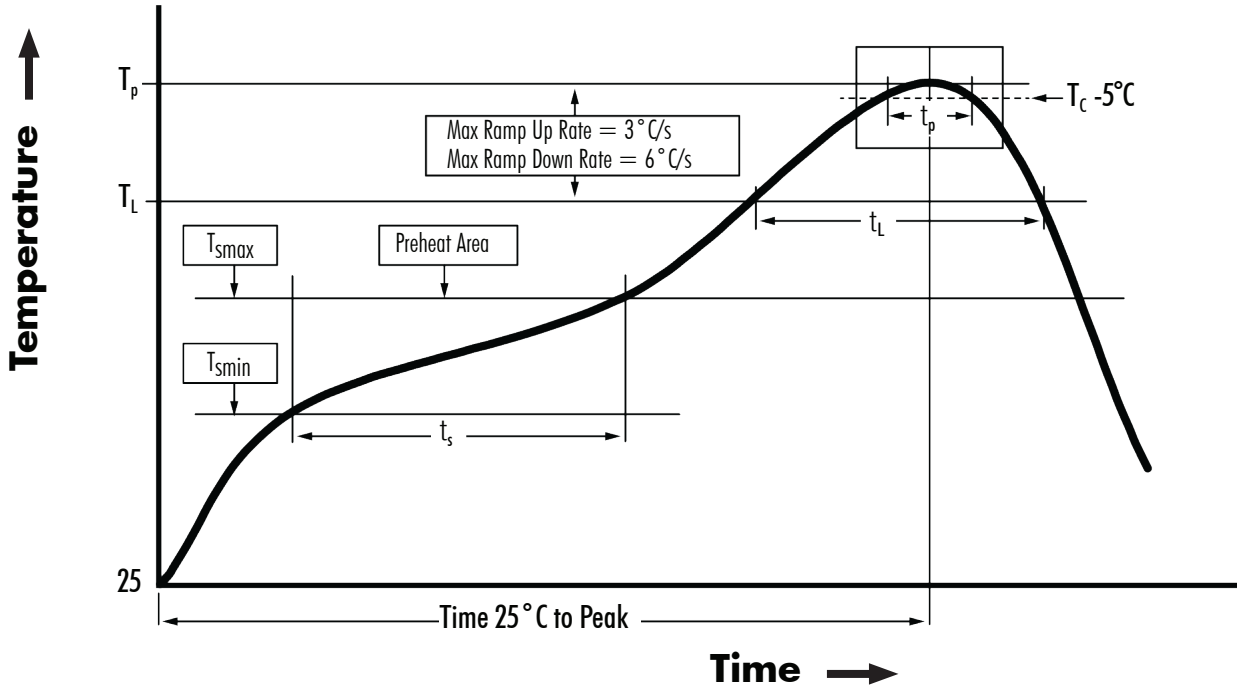
RA1063NL

Dimensions: inch [mm]
Tolerance (unless otherwise specified): ±0.010 [0.25]





Non-Lead Recommended Reflow Profile (Based on J-STD-020D)



T_{SMIN} (°C)	T_{SMAX} (°C)	T_L (°C)	T_P (°C MAX)	t_S (s)	t_L (s)	t_P (s MAX)	Ramp-up rate (T_L to T_P)	Ramp-down rate (T_P to T_L)	Time 25°C to peak temperature (s MAX)
150	200	217	245	60 - 120	60 - 150	30	3°C/s MAX	6°C/s MAX	480

NOTES:

1. All temperatures measured on the package leads.
2. Maximum number of reflow cycles not to exceed 2.

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