

# BMS TRANSFORMER

Automotive



iNRCORE FAMILY OF BRANDS

- AEC-Q200 Compliance
- Designed for use with ADI LTC6804/681X series, NXP MC33771/33772 and TI BQ79616
- 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%)	Inductance 100kHz, 0.1 Vrms (µH)		Insertion Loss (dB MAX)	Return Loss (dB MIN)	Dielectric Withstanding Voltage 60S MIN (VDC)
	$\frac{(1-3)}{(6-4)}$	MIN	MAX	4 MHz	4 MHz	
RA1055NL	1CT:1CT	150	370	0.30	20	(1-3) to (6-4)

### NOTES:

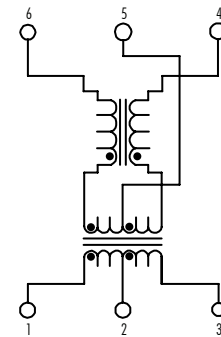
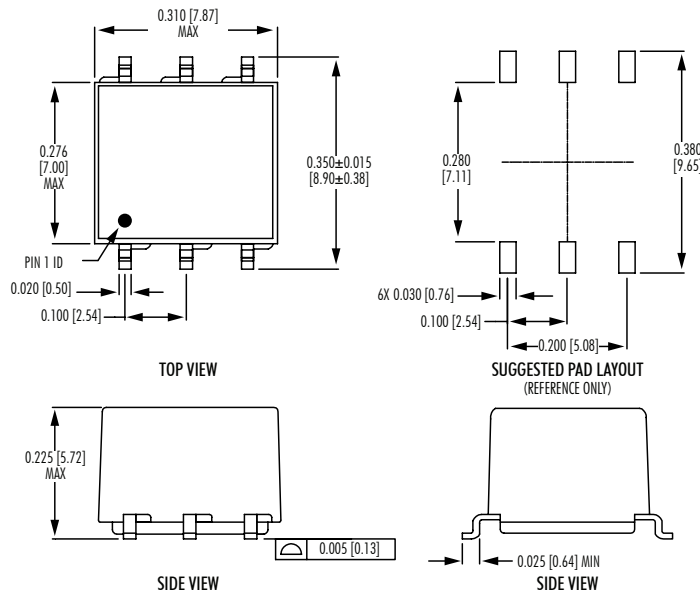
1. For Tape & Reel packaging, add "T" suffix at the end of the part number: i.e. RA1055NLT

### Mechanicals

### Electrical Schematics

RA1055NL

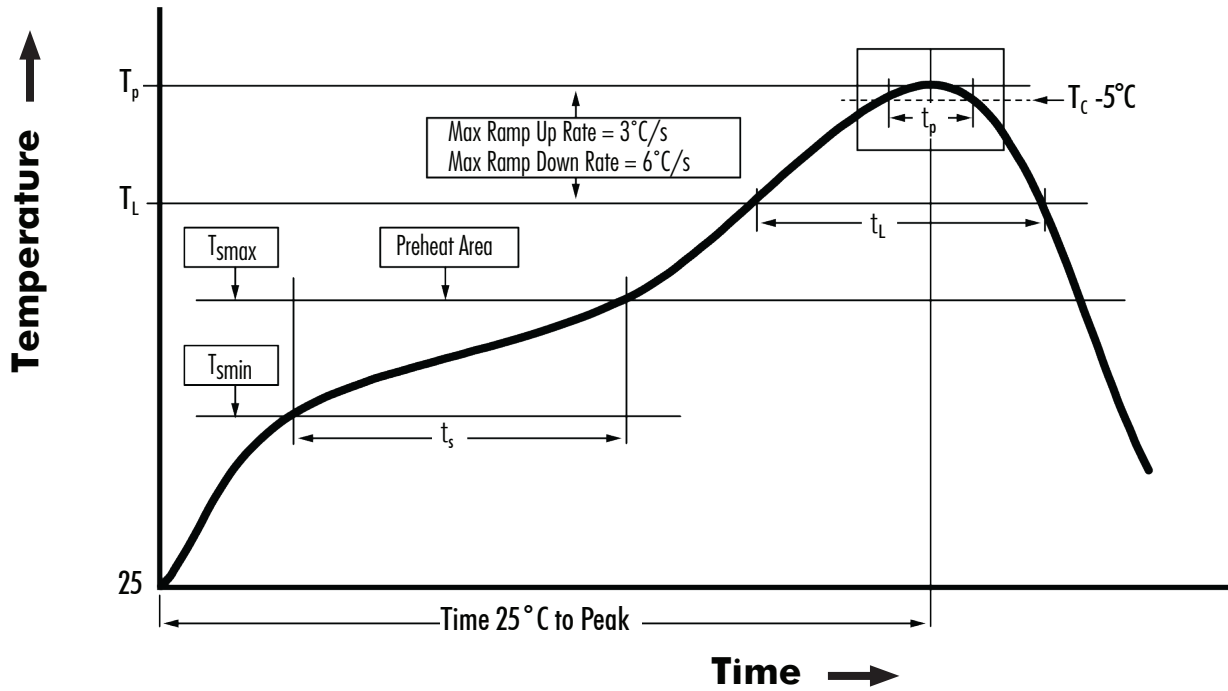
Dimensions: inch [mm]  
Tolerance (unless otherwise specified): ±0.010 [0.25]



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M522 (4DEC23)

## 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.

