

BMS DUAL PORT 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: $\geq 5\text{mm}$, per pollution 2 & material group 1
- Operating Temperature: -40°C to $+125^{\circ}\text{C}$
- Storage Temperature: -55°C to $+125^{\circ}\text{C}$
- Lead Finish: Sn100
- Moisture Sensitivity Level: 1

Electrical Specifications @ 25°C

Part Number	Turns Ratio ($\pm 5\%$)		Inductance 100kHz, 0.1 Vrms (μH)		Insertion Loss (dB MAX) 4 MHz	Return Loss (dB MIN) 4 MHz	Dielectric Withstanding Voltage 60S MIN (VDC)
	(1-3) (6-4)	(4-6) (9-7)	MIN	MAX			
RA2055NL	1CT:1CT	1CT:1CT	150	450	0.30	20	4300

NOTES:

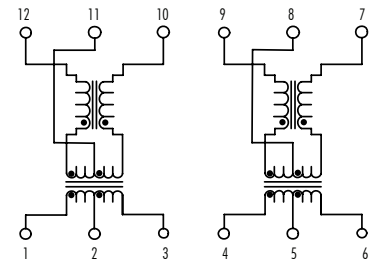
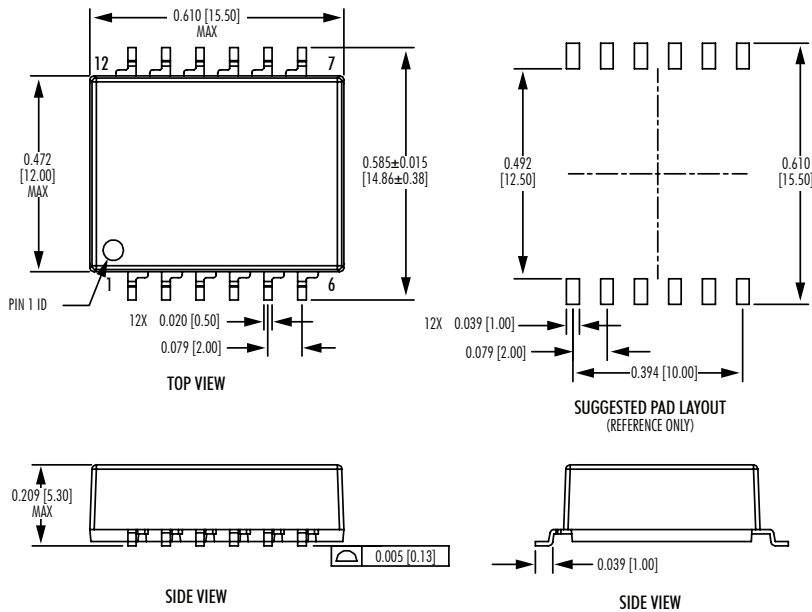
1. For Tape & Reel packaging, add "T" suffix at the end of the part number: i.e. RA2055NLT

Mechanicals

Electrical Schematics

RA2055NL

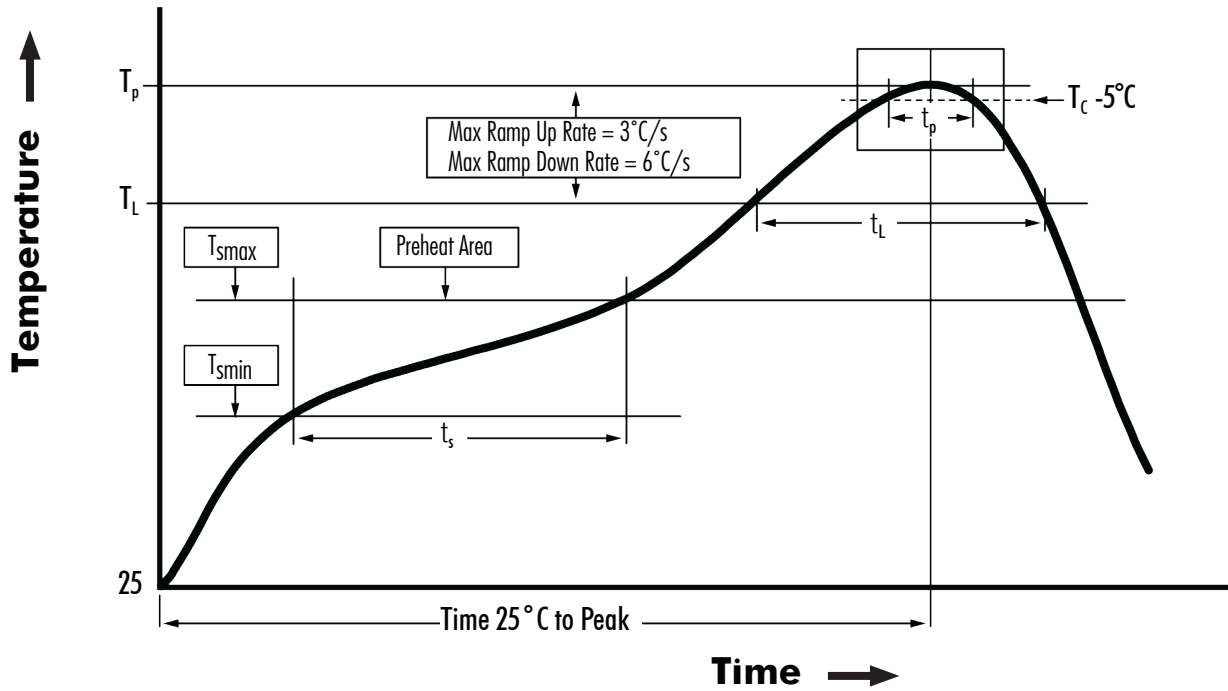
Dimensions: inch [mm]
Tolerance (unless otherwise specified): ± 0.010 [0.25]



Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2023. iNRCORE, LLC. All rights reserved.

M537 (5DEC23)

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.

