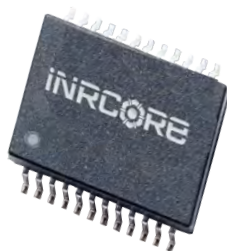


10GBASE-T TRANSFORMER MODULES

Ruggedized

10GB-6010



- Compliant with IEEE 802.3 standards
- Dielectric Withstanding Voltage: 1500Vrms
- Operating temperature: -40°C to +125°C
- Storage temperature: -55°C to +125°C
- Terminal finish: Sn/Pb, (Pure tin for RoHS version)
- MSL: 3

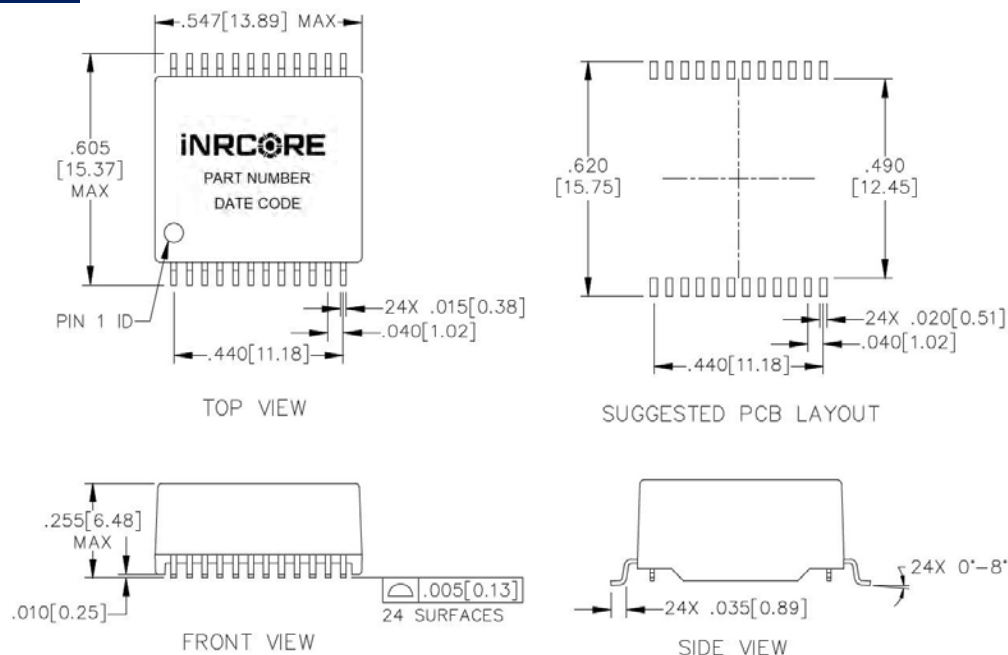
Electrical Specifications @ 25°C

Part Number	Insertion Loss (dB Max)			Return Loss (dB Min)					Crosstalk (dB Min)				DM to CM Rejection Ratio (dB Min)			Dielectric Withstanding Voltage @5s (Vrms MIN)
	100 KHz	1-300 MHz	400-500 MHz	1 MHz	100 MHz	300 MHz	400 MHz	500 MHz	1 MHz	100 MHz	400 MHz	500 MHz	1 MHz	250 MHz	500 MHz	
10GB-6010	-3.0	-1.2	-2.4	-22	-20	-12	-10	-8	-40	-37	-30	-25	-40	-30	-22	1500

Notes: 1. Add suffix "T" to part number for Tape & Reel package (i.e.: **10GB-6010T**). 2. Add suffix NL for RoHS compliant part; i.e. (**10GB-6010NL**).

Mechanical

10GB-6010



Dimensions: inches[mm]
Unless otherwise specified,

Weight.....TBD
Tube.....TBD

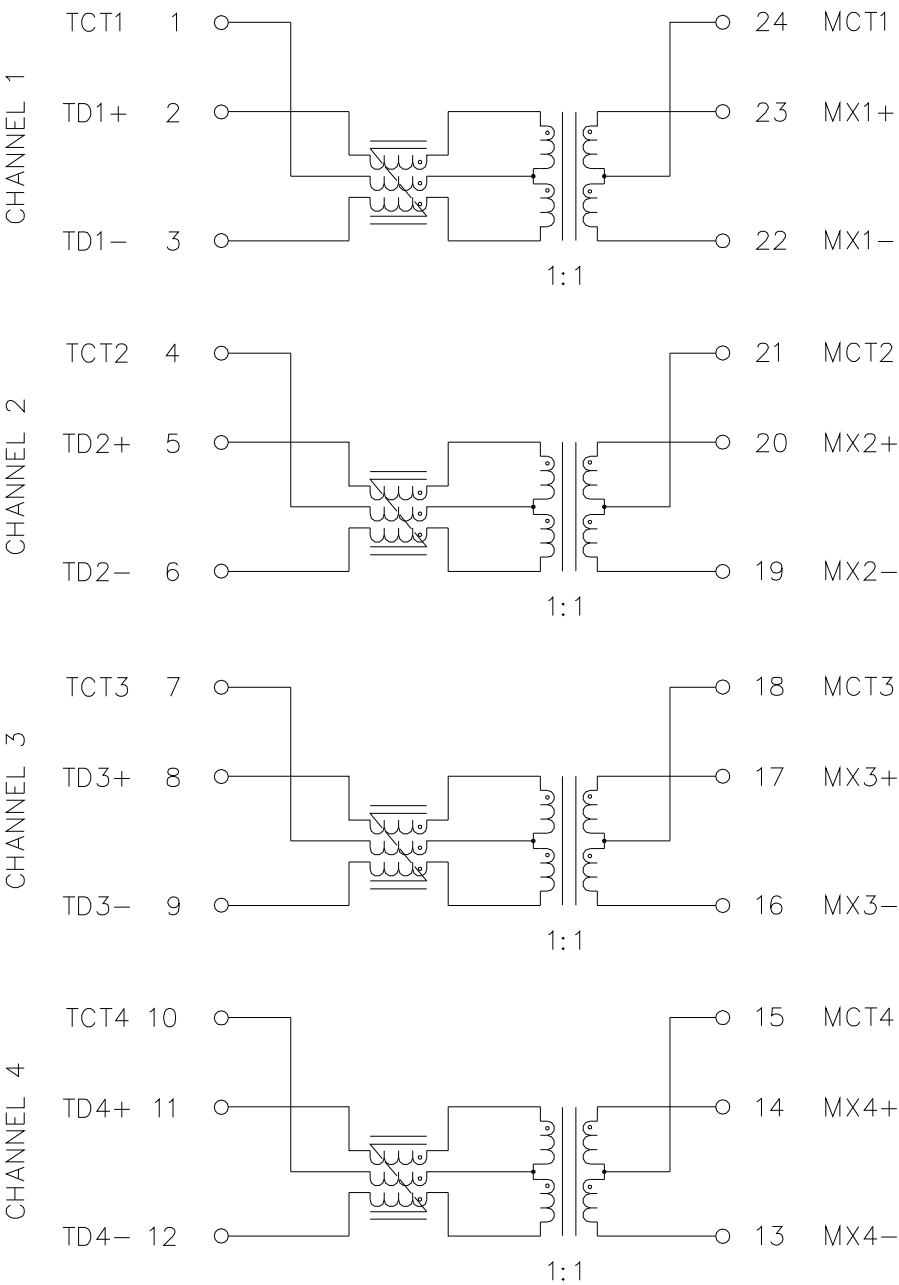


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M567 (10/2020)

Schematic

10GB-6010



SCHEMATIC

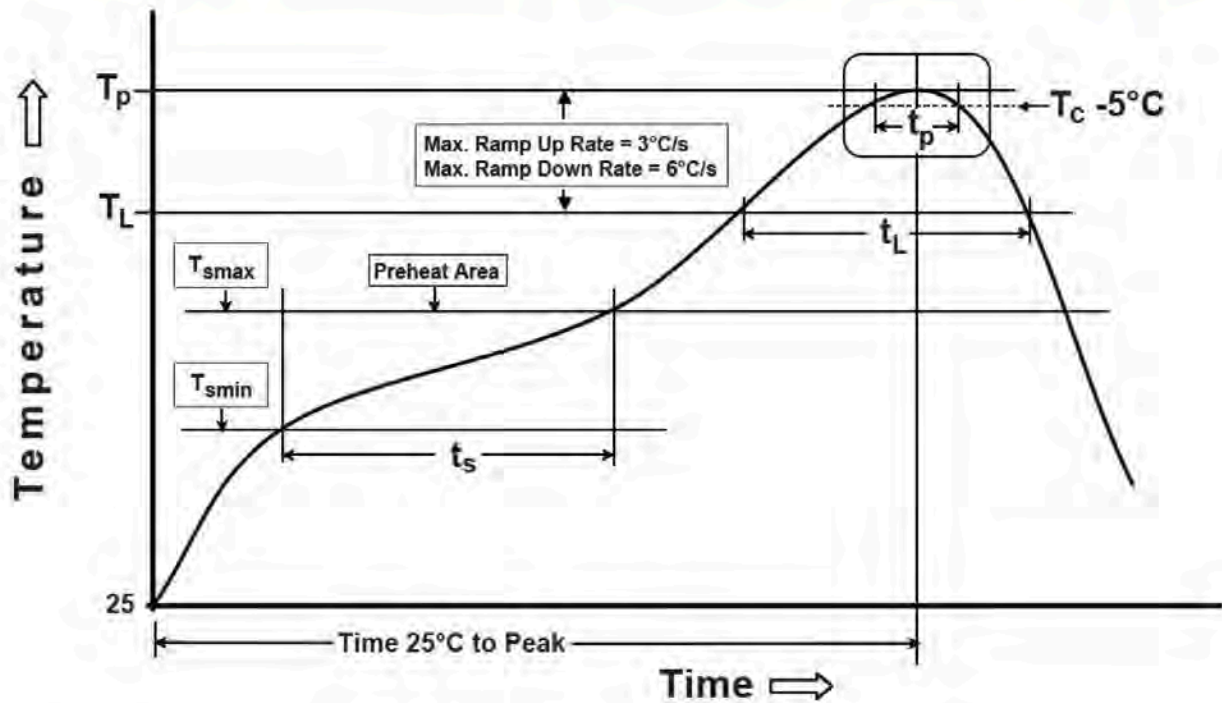
LEGEND

P-I-C D-S-S E	Td	←→	Mx	M D-F-A S D-L
	Td	←→	Mx	
	Td	←→	Mx	
	Td	←→	Mx	

ALL CHANNELS ARE
IN PHASE BETWEEN
INPUT AND OUTPUT



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



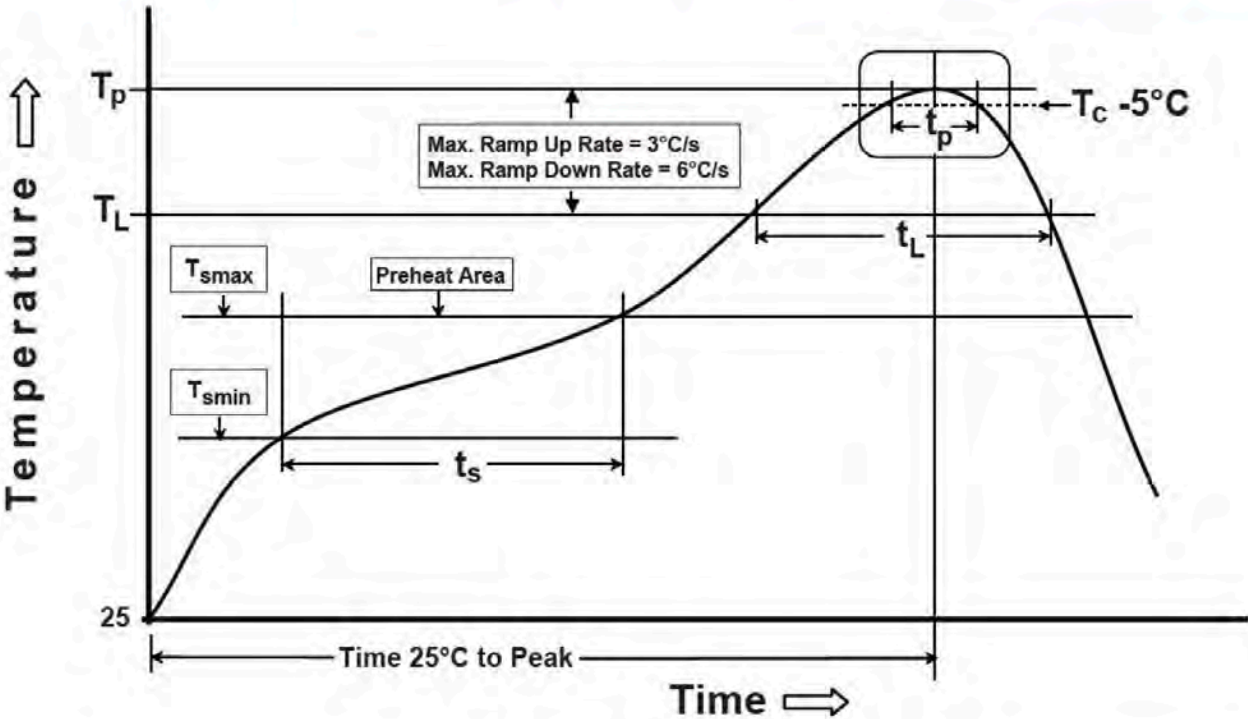
T_{SMIN} (°C)	T_{SMAX} (°C)	T_L (°C)	T_P (°C MAX)	t_s (s)	t_L (s)	t_P (s MAX)	Ramp-up rate (T_L to T_P)	Ramp-down rate (T_P to T_L)	Time 25°C to peak temperature (s MAX)
100	150	183	235	60-120	60-150	20	3°C/s MAX	6°C/s MAX	360

Notes:

1. All temperatures measured on the package leads.
2. Maximum times of reflow cycle: 2.



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 times of reflow cycle: 2.

For More Information

iNRCORE, LLC
311 Sinclair Road Bristol,
PA 19007-6812 U.S.A
Tel: + 1.215.781.6400
Fax: +1.215.7816430

Global Sales Representatives and Locations:
<http://www.inrcore.com>

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