## 1000BASE-T SINGLE PORT TRANSFORMER MODULE

Ruggedized

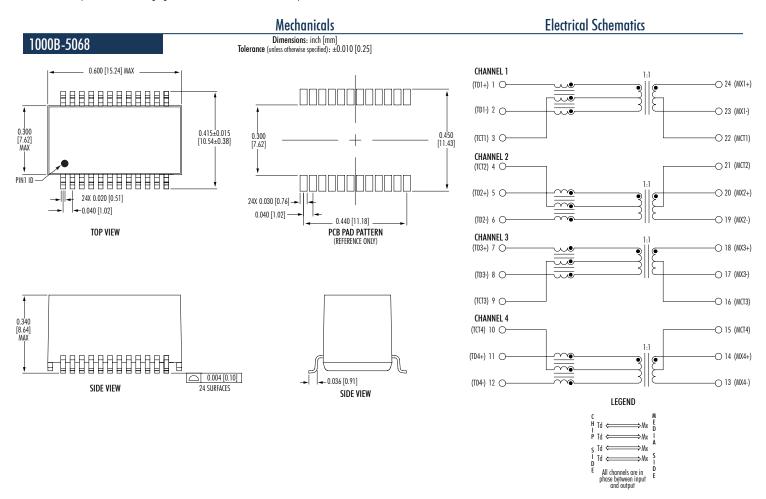


- Compliant with IEEE 802.3af requirements for PoE
- 350µH OCL with 8mA DC bias at extended temperatures
- Current Rating: 350mA MAX per pair
- Dielectric Withstanding Voltage (DWV): 1500 Vrms
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -55°C to +125°C
- Lead Finish: Sn63/Pb37Moisture Sensitivity Level: 3

Electrical Specifications @ 25°C																
		In	sertion Loss Return Loss Crosstalk (dB MAX) (dB MIN) (dB MIN)						CM to CM Rejection (dB MIN)							
Part Number	1 MHz	30 MHz	60 MHz	80 MHz	100 MHz	1 MHz	40 MHz	60 MHz	80 MHz	100 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz
1000B-5068	1.1	1.1	1.1	1.1	1.1	18	18	14	12	10	43	37	31	40	35	30

#### NOTES:

- 1. Add suffix "NL" for RoHS compliant version; i.e. 1000B-5068 becomes 1000B-5068NL. NL parts have 100% SN Lead Finish.
- 2. For Tape and Reel Packaging, add "T" suffix at the end of the part number; i.e. 1000B-5068T.



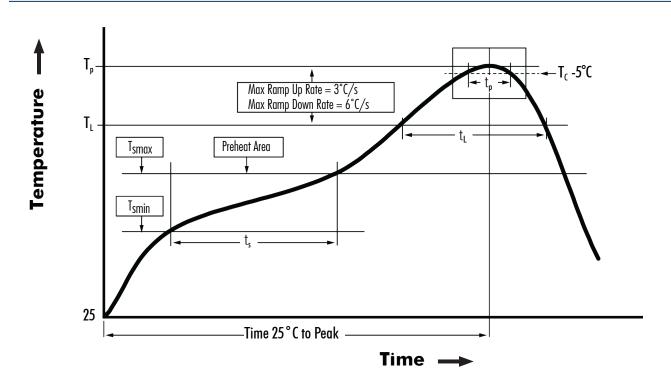


# 1000BASE-T SINGLE PORT TRANSFORMER MODULE





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



T <sub>smin</sub> (°C)	T <sub>smax</sub> (°C)	T <sub>ւ</sub> (°C)	T <sub>P</sub> (°C MAX)	† <sub>s</sub> (s)	t <sub>L</sub> (s)	t <sub>p</sub> (s MAX)	Ramp-up rate (T <sub>L</sub> to T <sub>P</sub> )	Ramp-down rate (T <sub>P</sub> to T <sub>L</sub> )	Time 25°C to peak temperature (s MAX)		
Tin/Lead Profile											
100	150	183	220	60 - 120	60 - 150	20	3°C/s MAX	6°C/s MAX	360		
Non-Lead Profile											
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.
- 3. Reflow cycle applies only to surface mount parts.



iNRCORE, LLC 311 Sinclair Road, Bristol, PA 19007-6812 USA Tel: +1.215.781.6400 Fax: +1.215.781.6430

www.iNRCORE.com