

100BASE-T PoE/PoE+ APPLICATION SINGLE&DUAL PORT TRANSFORMERS

Ruggedized



- Compliant with IEEE 802.3 standards
- Lead finish: Sn/Pb (Pure tin for RoHS version)
- Operating temperature: -40°C to +85°C (-55°C to +125° for X version)
- Moisture Sensitivity Level: 3

Electrical Specifications @ 25°C – Operating temperature: -40°C to +85°C

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)			Crosstalk (dB Min)				DM to CM Rejection Ratio (dB Min)			Dielectric Withstanding Voltage @60s (Vrms MIN)
	0.1-100 MHz	30 MHz	60 MHz	80 MHz	1 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
100B-1061	-1.2	-18	-14	-12	-50	-43	-37	-33	-43	-37	-33	1500
100B-1062	-1.2	-18	-12	-10	-50	-43	-37	-33	-43	-37	-33	1500
100B-1063	-1.2	-18	-14	-12	-50	-43	-37	-33	-43	-37	-33	1500
100B-1064	-1.2	-18	-12	-10	-50	-43	-37	-33	-43	-37	-33	1500

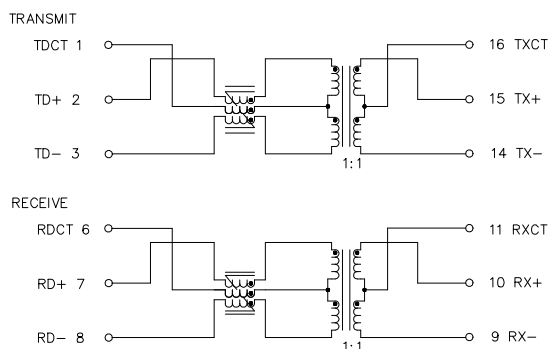
Continue

Part Number	Power (W Max)	Port	Current Rating Per pair (mA Max)	OCL at 100KHz, 0.1V, operating temperature range (uH Min)	Package	Height (inch Max)
100B-1061	30	Single	600	350, at 18mA DC Bias	16Pin	0.245
100B-1062	60	Single	1200	250, at 36mA DC Bias	16Pin	0.245
100B-1063	30	Dual	600	350, at 18mA DC Bias	24Pin	0.265
100B-1064	60	Dual	1200	250, at 36mA DC Bias	24Pin	0.265

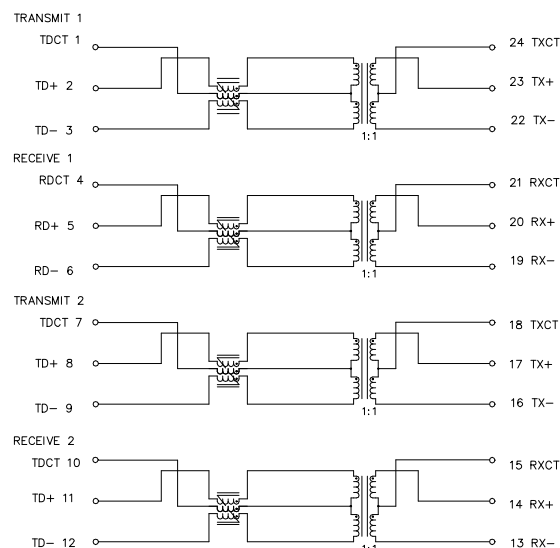
- Notes: 1. Add suffix "X" for extended operating temperature -55°C to +125° (ie: 100B-1061X);
2. Add suffix "NL" for RoHS compliant (ie: 100B-1061XNL);
3. Add suffix "T" to part number for Tape & Reel package (ie: 100B-1061XNLT).

Electrical Schematic

100B-1061/62



100B-1063/64



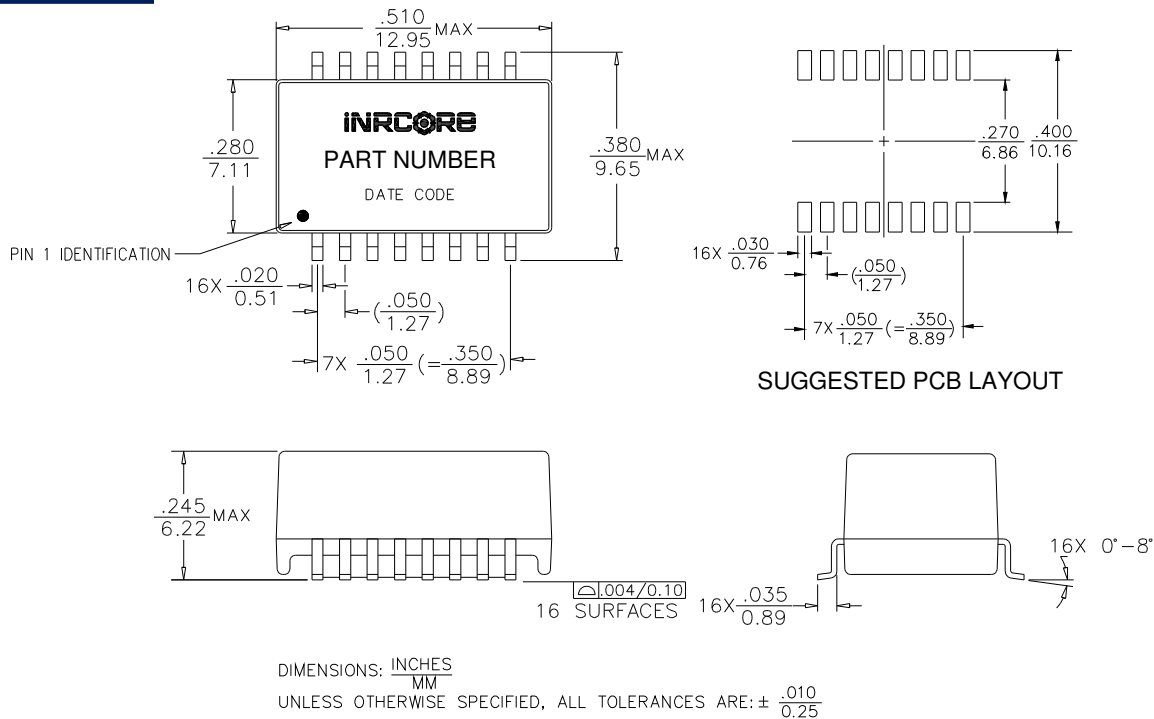
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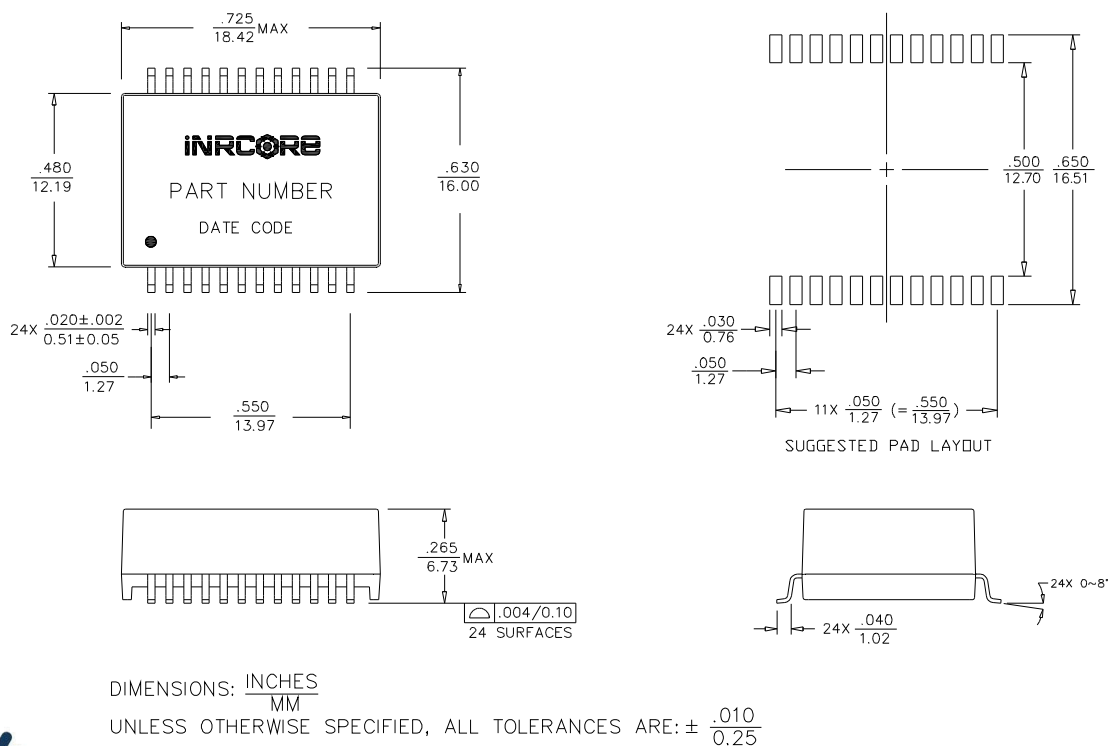
Mechanical

100B-1061/62

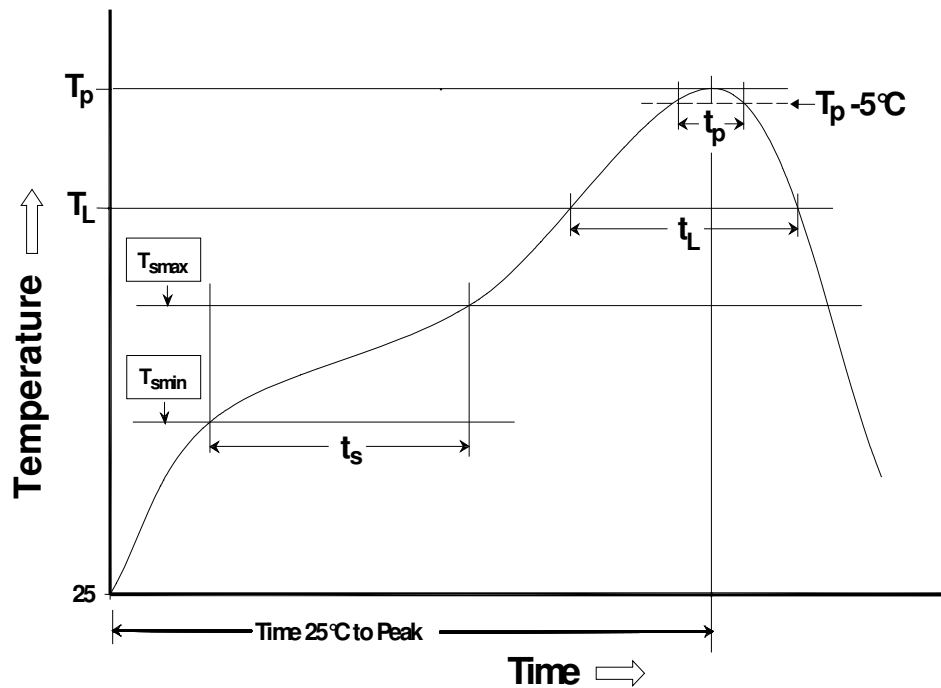


Mechanical

100B-1063/64



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	220	60-180	60-150	20	3°C/s MAX	6°C/s MAX	360

Notes:

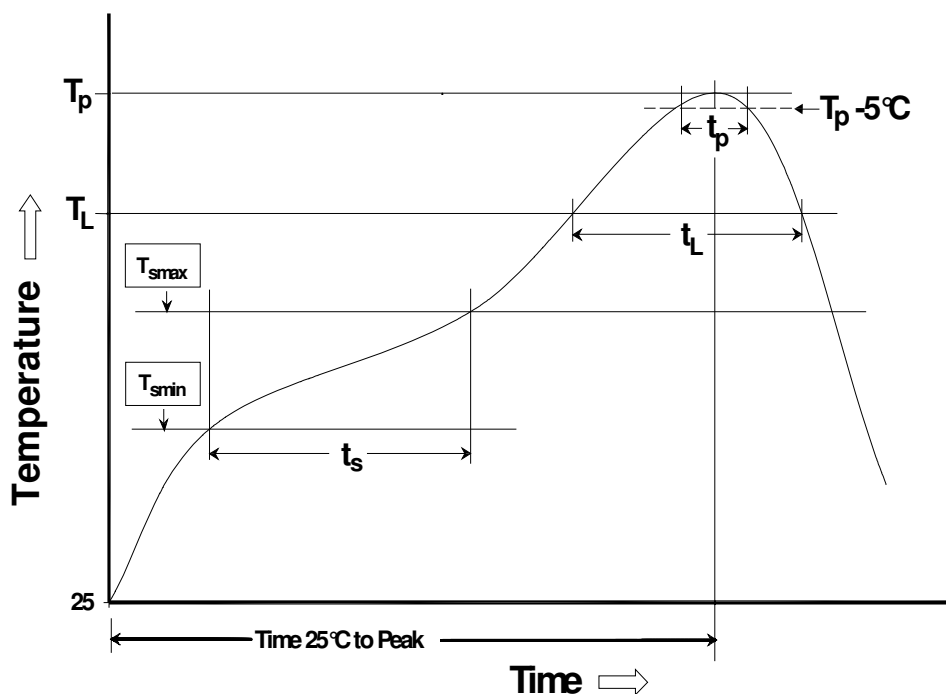
1. All temperatures measured on the package leads.
2. Maximum times of reflow cycle: 2.

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



T_{SMIN} ($^\circ\text{C}$)	T_{SMAX} ($^\circ\text{C}$)	T_L ($^\circ\text{C}$)	T_P ($^\circ\text{C MAX}$)	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 $^\circ\text{C}$ to peak temperature (s MAX)
150	200	217	245	60-120	60-150	30	3 $^\circ\text{C/s MAX}$	6 $^\circ\text{C/s MAX}$	480

Notes:

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

For More Information

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