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- Compliant with IEEE 802.ab for 1000Base-T
- 350µH OCL with 8mA bias at extended temperatures
- Two Operating and Storage Temperature Versions Available:
  - Standard: -40°C to +85°C

Extended: -55°C to +125°C

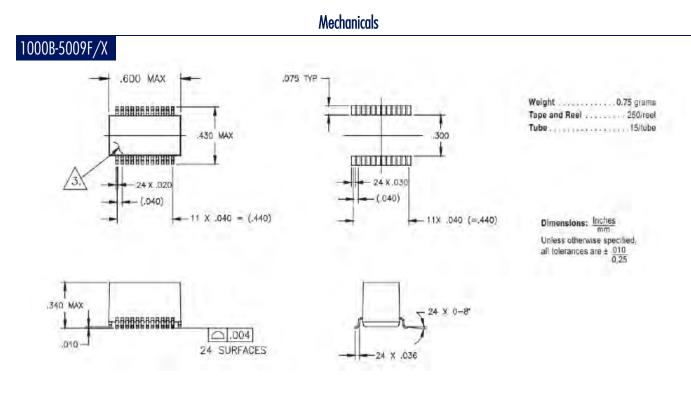
- 245°C peak reflow temperature for RoHS versions
- Moisture Sensitivity Level: 3

	Electr	ical Sp	oecifica	itions (	@ 25 °C	C – Ope	erating	J Temp	eratur	e – 40	°C to +	-85°C			
	Insertion Loss	Loss Return Loss				Crosstalk (dB Max)			CM to CM Rejection Ratio (dB Max)			DM to CM Rejection Ratio (dB Max)			Hipot (Vrms)
Part	(dB Min)	(dB Max)													
Number <sup>1,2</sup>	0.1-100 Mhz	30 Mhz	60 Mhz	80 Mhz	100 Mhz	30 Mhz	60 Mhz	100 Mhz	30 Mhz	60 Mhz	100 Mhz	30 Mhz	60 Mhz	100 Mhz	- (VIIIIS)
1000B-5009F	-1.2	-18	-12	-12	-10	-43	-37	-31	-30	-25	-18	-40	-35	-30	1500
1000B-5012F	-1	-18	-12	-12	-10	-43	-37	-33	-43	-37	-33	-43	-37	-33	1500
1000B-5014F	-1.4	-16	-12	-12	-10	-43	-37	-33	-45	-40	-35	-43	-37	-33	1500
1000B-5016F*	-1.2	-18	-12	-12	-10	-43	-37	-31	-30	-23	-17	-40	-35	-30	1500

Note: 1. Add suffix X for extended temperature version; i.e. 1000B-5009F becomes 1000B-5009FX. (\*1000B-5016F does not offer X-Version)

2. Add suffix NL for RoHS compliant part; i.e. 1000B-5012F becomes 1000B-5012FNL.

3. For Tape & Reel Packaging, add "T" suffix at the end of the part number; i.e. 1000B-5014FT

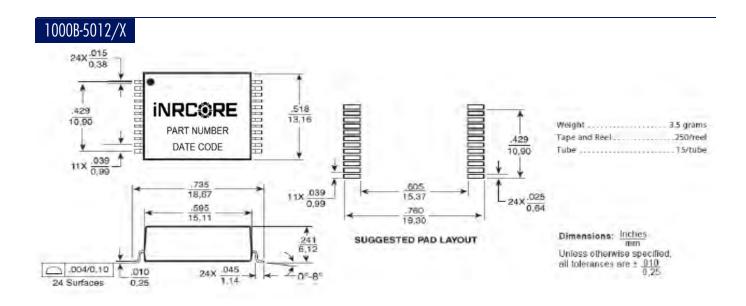


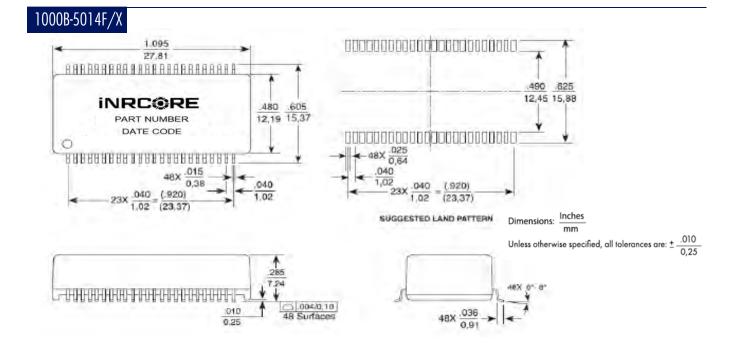


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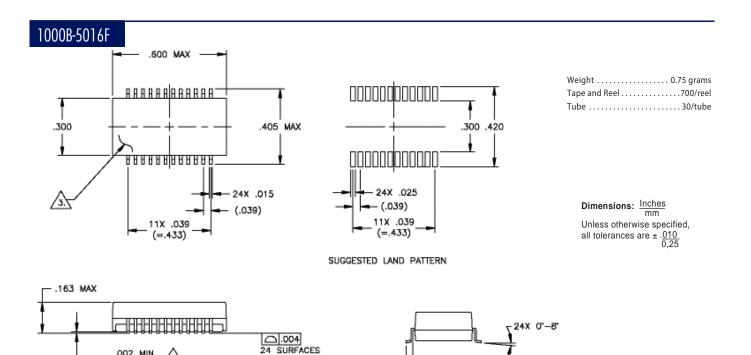




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.002 MIN WASH AREA inrc@re

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24X.035

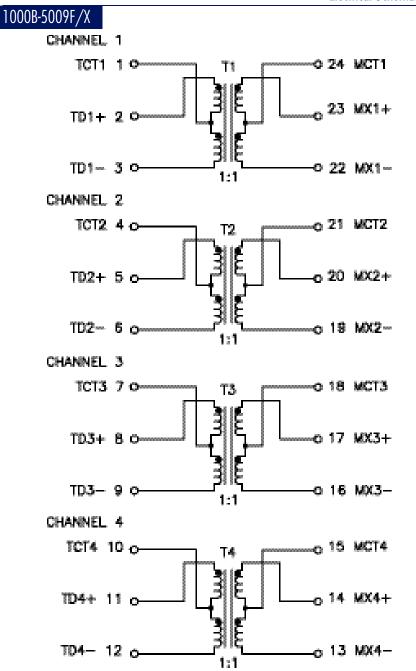


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**Electrical Schematics** 



	LEGEND	
	Td ⇐━━━━ Mx	
С	Td ⇐━━━━━ Mx	М
CH-P	Td ⇐━━━━━ Mx	Ē
Þ	Td ⇐━━━━ Mx	Å
Ş	Td ⇐━━━━━ Mx	S
S-DE	Td ⇐━━━━━━ Mx	S-DF
E	Td ⇐━━━━━ Mx	Ĕ
	Td ⇐━━━━ M×	

ALL CHANNELS ARE IN PHASE BETWEEN INPUT AND OUTPUT

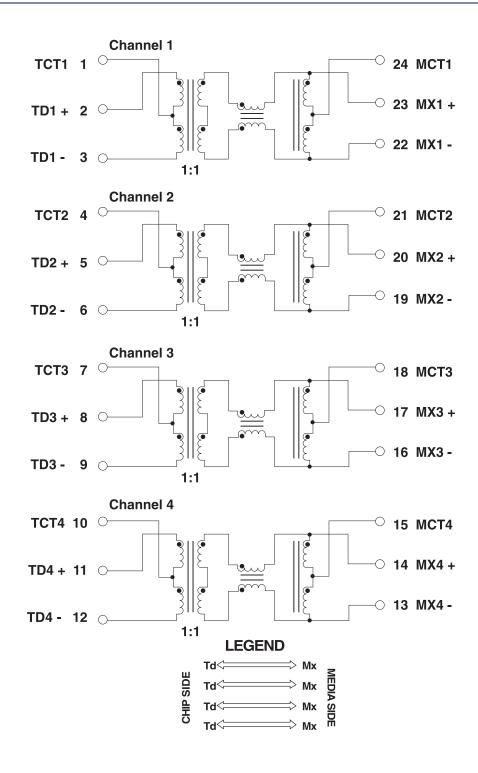


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# 1000B-5012F/X



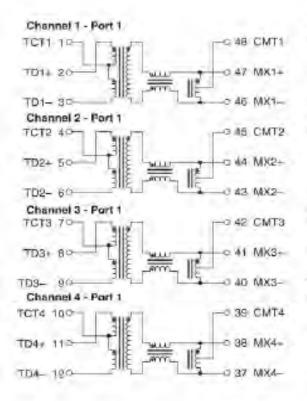


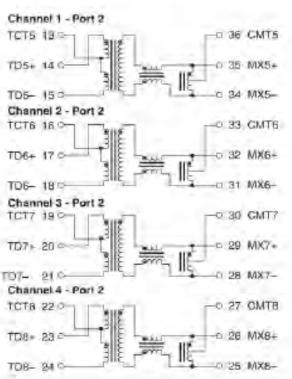
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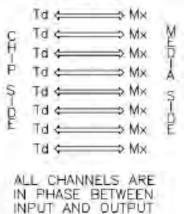
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# 1000B-5014F/X





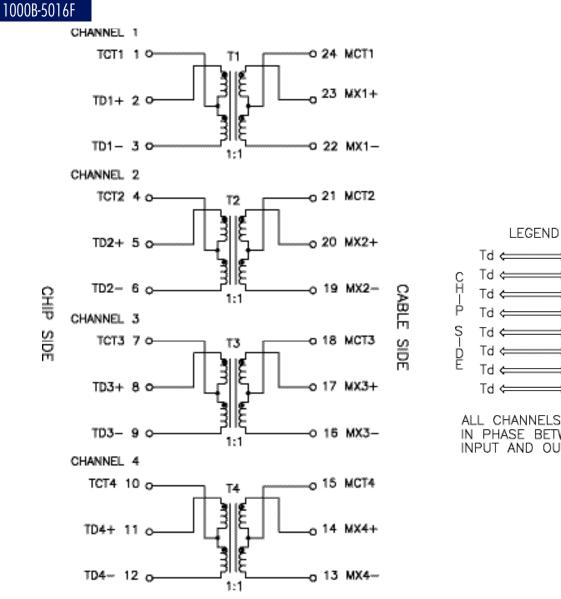
LEGEND

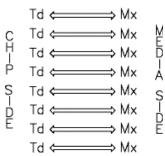


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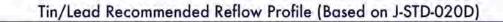
ALL CHANNELS ARE IN PHASE BETWEEN INPUT AND OUTPUT

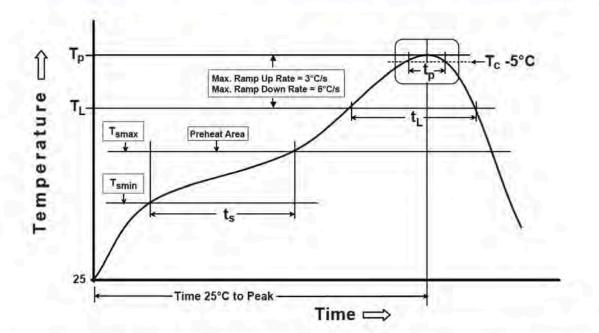


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T <sub>SMIN</sub> (°C)	T <sub>SMAX</sub> (°C)	⊤∟ (°C)	T <sub>P</sub> (°C MAX)	t <sub>s</sub> (s)	t <sub>L</sub> (s)	t <sub>P</sub> (s MAX)	Ramp-up rate $(T_L \text{ to } T_P)$	Ramp-down rate (T <sub>P</sub> to T <sub>L</sub> )	Time 25°C to peak temperature (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.

#### **For More Information**

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