10/100BASE-TX TRANSFORMER MODULES

Industrial Grade

iNRCORE

- Compliant with IEEE 802.3 standards
- Low profile packages .088" Max for PC card and card bus applications
- 350µH OCL with 8mA DC bias at 100KHz 100mV
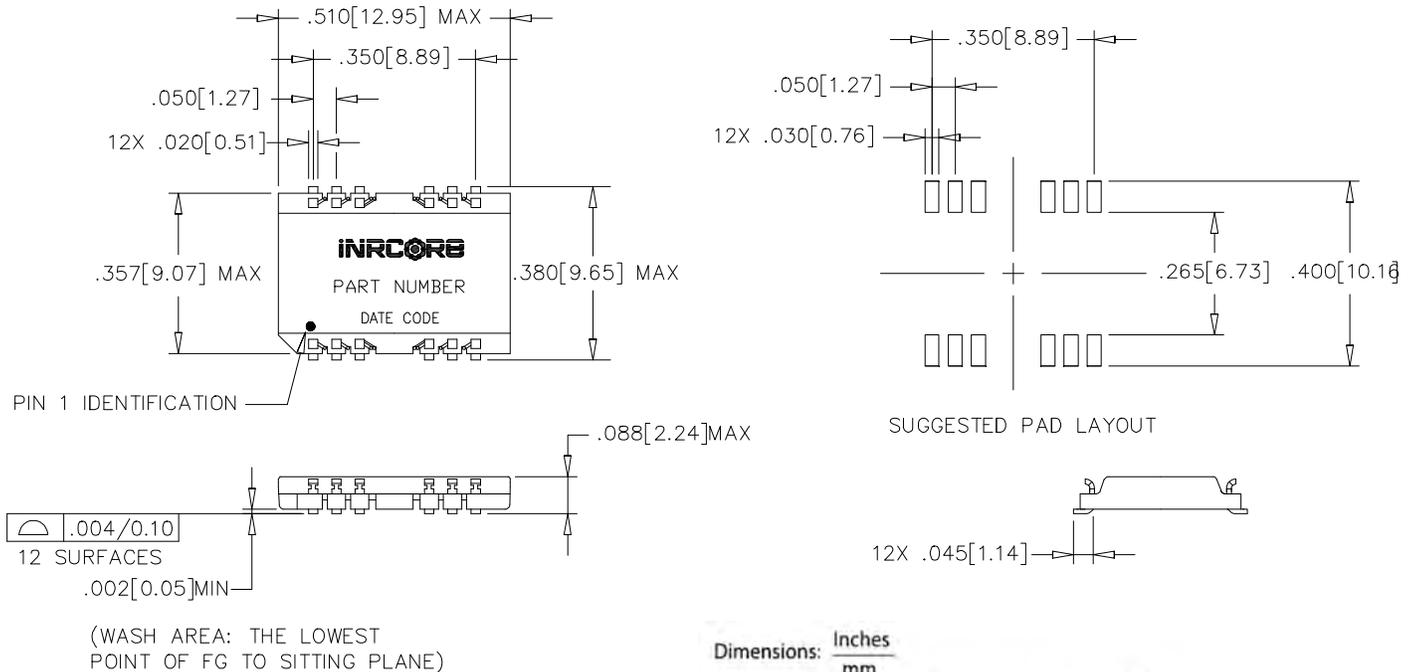- Lead finish: Pure tin
- Moisture Sensitivity Level: 1

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)			Crosstalk (dB Min)				CM to CM Rejection Ratio (dB Min)			Dielectric Withstanding Voltage @60s (Vrms MIN)
	0.1-100 MHz	5-30 MHz	60 MHz	80 MHz	1 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
R1035NL	-1.2	-16	-14	-10	-48	-45	-40	-35	-35	-30	-25	1500

Electrical Specifications @ 25 °C – Operating Temperature − 40°C to +85 °C

Note:1. Tape&Reel Packaging, add "T" suffix at the end of the part number; i.e. **R1035NLT**

Mechanical

R1035NL

.510[12.95] MAX
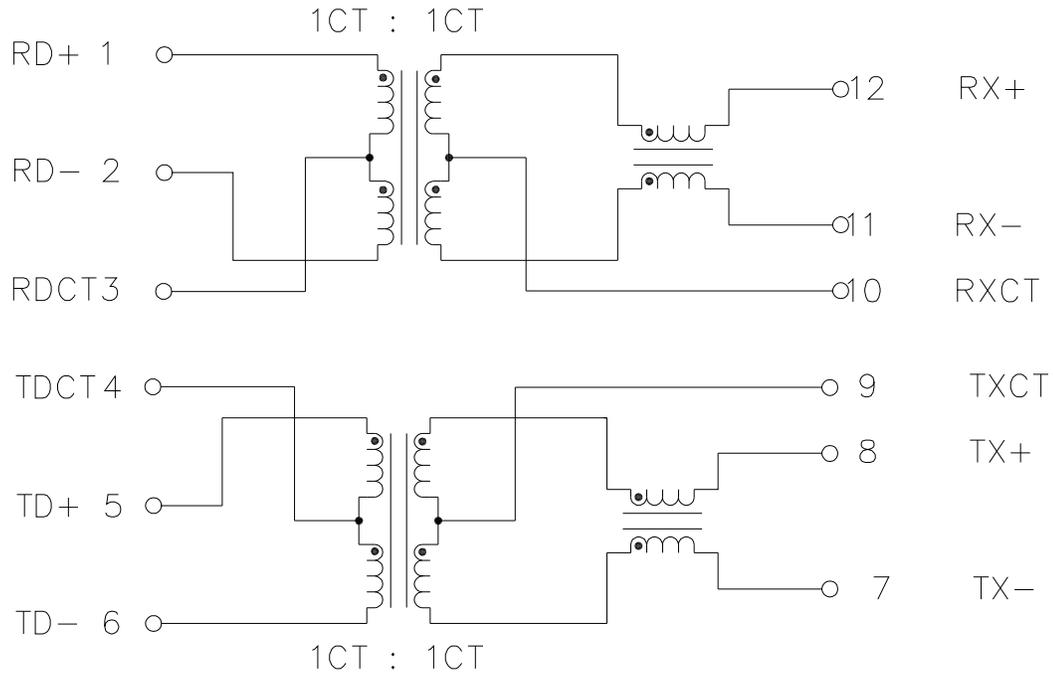.350[8.89]
.050[1.27]
12X .020[0.51]
.357[9.07] MAX
.380[9.65] MAX
PART NUMBER
DATE CODE
PIN 1 IDENTIFICATION

.088[2.24]MAX
.004/0.10
12 SURFACES
.002[0.05]MIN

(WASH AREA: THE LOWEST POINT OF FG TO SITTING PLANE)

.350[8.89]
.050[1.27]
12X .030[0.76]
.265[6.73] .400[10.16]
SUGGESTED PAD LAYOUT

12X .045[1.14]

Dimensions: Inches / mm

Unless otherwise specified, all tolerances are: ± .010 / 0,25

Electrical Schematic

R1035NL


```
         1CT : 1CT
RD+ 1                              12    RX+

RD− 2                              11    RX−

RDCT 3                             10    RXCT


TDCT 4                              9    TXCT

TD+ 5                               8    TX+

TD− 6                               7    TX−
         1CT : 1CT
```

LEGEND
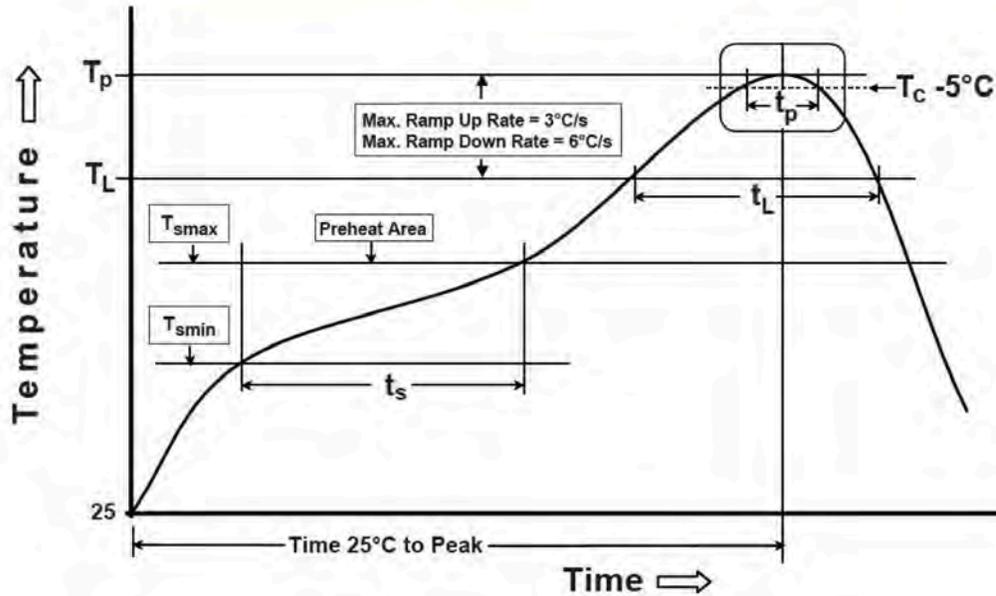
CHIP SIDE   Rd ⟹ Rx   MEDIA SIDE

Td ⟸ Tx
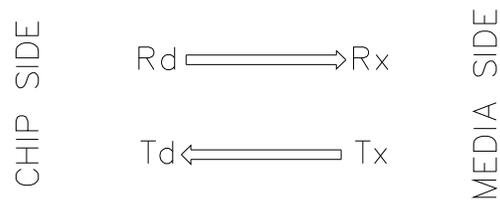
ALL CHANNELS ARE
IN PHASE BETWEEN
INPUT TO OUTPUT

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

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