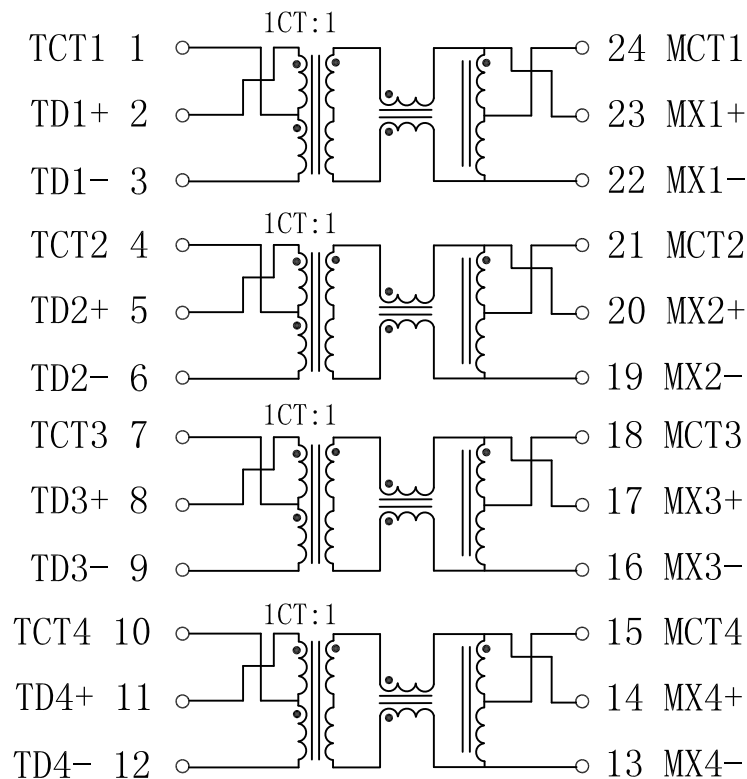


Schematic:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2010/11/11	



Electrical Specifications @25°C

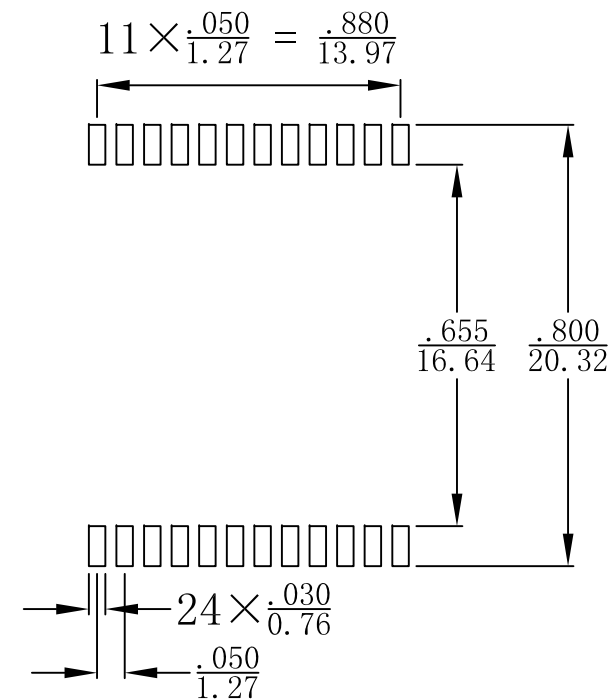
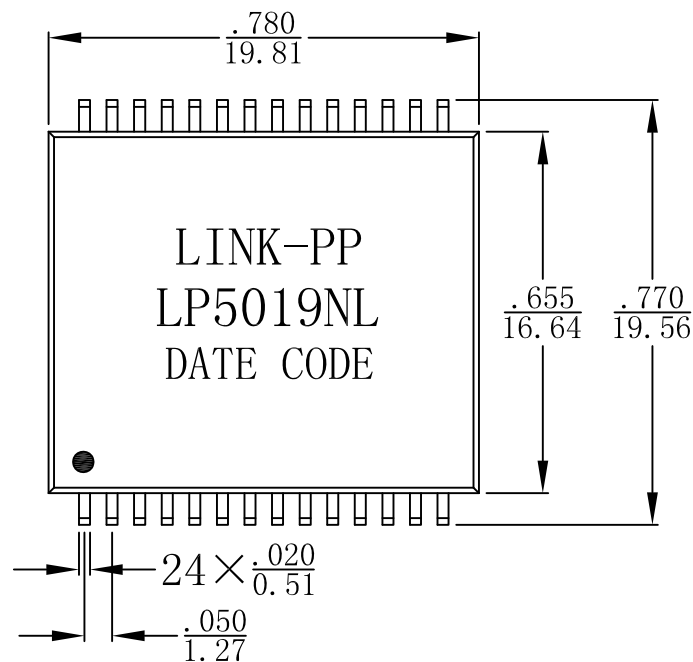
1. Turns Ratio: 1CT : 1
2. Inductance: 350uH MIN
@100KHz, 100mV, 8mA.
3. Insertion Loss:
1-100MHz: -1.0dB Max
4. Return Loss (dB Min):
1-40MHz: -18
40-100MHz: $-12 + 20 * \text{LOG}_{10}(f/80)$
5. Crosstalk (dB Min):
30-100MHz: $-55 + 24 * \text{LOG}_{10}(f/10)$
6. Differential to Common Mode Rejection:
30-100MHz: $-43 + 22 * \text{LOG}_{10}(f/30)$ dB Min
7. Hipot: 1500Vrms Min
8. Operating Temperature: 0°C ~ 70°C.



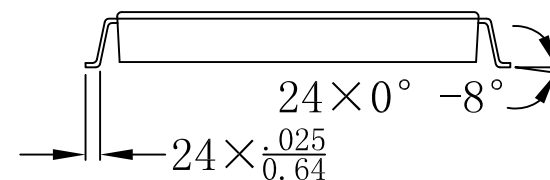
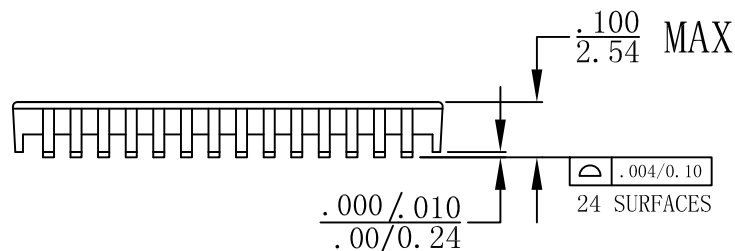
X:X	APPD:	LINK-PP INT'L TECHNOLOGY CO., LIMITED		
X:XX	CHKD:	TITLE: 1000Base-T Low Profile Magnetics Module		
X:XXX	DR: TOM	PART NO.: LP5019NL		
ANGLES ±1°	UNIT: Inches/mm			
	SCALE: 2/1	SHEET: 1/2	REV: A	DWG NO.: LP10111113

Mechanical:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2010/11/11	



SUGGESTED LAND PATTERN



NOTES:

1. Designed to support application, such as SOHO (ADSL modems), LAN-on-Motherboard (LOM), hub and Switches.
2. With various Turns Ratios.
3. 350uH min OCL with 8mA bias current.
4. RoHS "NL" peak solder rating 260°C ± 5°C.



Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

X:X	APPD:	LINK-PP INT'L TECHNOLOGY CO., LIMITED		
X:XX	CHKD:	TITLE: 1000Base-T Low Profile Magnetics Module		
X:XXX	DR: TOM	PART NO.: LP5019NL		
ANGLES ±1°	UNIT: Inches/mm	DWG NO.: LP10111113		
	SCALE: 2/1	SHEET: 2/2	REV: A	