T1/E1/CEPT/ISDN-PRI **INTERFACE MODULES**



Dual Surface Mount Transformer Modules, 1500 Vrms, Extended Temperature Range



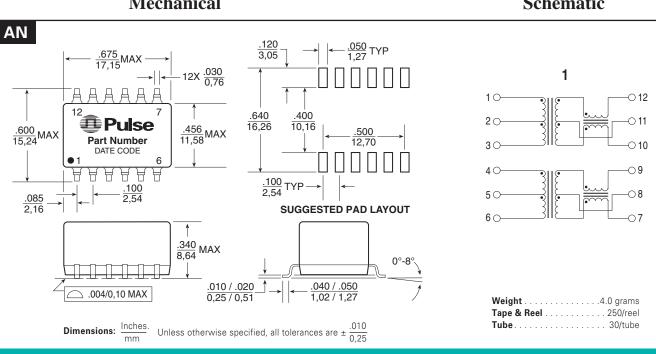
- RoHS peak reflow temperature rating 245°C a
- Optimized for enhanced EMC performance Ω
- Extended temperature range ß
- Dual SMT package contains transformers with common n mode chokes on both transmit and receive channels
- Ω Models matched to leading transceiver ICs
- Patented Interlock Base construction for high reliability
- UL1950 approved

Electrical Specifications @ 25°C									
RoHS Compliant Part Number	Turns Ratio ² (Pri:Sec ± 2%)	Secondary OCL @ 25°C (mH MIN)	L (μΗ ΜΑΧ)	Cw/w (pF MAX)	DCR Pri (Ω MAX)	Package/ Schematic	Primary Pins		
EXTENDED TEMPERATURE RANGE MODELS ¹ – OPERATING TEMPERATURE -40°C TO +85°C									
T1212NL	1CT:1CT & 1CT:2CT	1.20	.60	35	.90	AN/1	1-3, 4-6		
T1215NL	1CT:1.41CT & 1CT:1.41CT	1.20	.60	30	.70	AN/1	1-3, 4-6		
T1217NL	1CT:2.42CT & 1CT:2.42CT	1.20	.60	25	.60	AN/1	1-3, 4-6		
T1219NL	1CT:2.4CT & 1CT:1CT	1.20	.60	35	.90	AN/1	1-3, 4-6		

1. Extended Temperature Range Models — For extended temperature range transformers (-40°C to +85°C operating temperature range), OCL (Open Circuit Inductance) is specified at both -40°C and +25°C. At -40°C, OCL is 600 µH minimum. All other parameters are specified at +25°C only. Standard temperature range is 0°C to +70°C.

2. Turns ratio is specified primary:secondary (CT = Center Tap).

Standard packaging for the surface mount package is anti-static tubes. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number, 3 (i.e. T1212NLT).



Mechanical

Schematic

USA 858 674 8100 • Germany 49 7032 7806 0 • Singapore 65 6287 8998 • Shanghai 86 21 32181071 • China 86 755 33966678 • Taiwan 886 3 4643715

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Application Notes

- 1. ET Product All coils have an ET product of 10 V-µsec minimum.
- Flammability Materials used in these products are recognized as UL94-VO approved. Products meet the requirements of IEC 695-2-2 (Needle Flame Test).
- **3.** Balance Characteristics The transformers meet the requirements for longitudinal balance of FCC part 68.
- Common Mode Rejection Ratio the CMRR for all transformers is better than 50 dB at 1 MHz.
- Crosstalk Attenuation In the packages which contain transmit and receive transformers side by side, sufficient crosstalk attenuation is achieved by the inherent characteristics of the toroid cores as well as by their proper positioning. The crosstalk attenuation is typically 65 dB or better.
- 6. Return Loss ITU-T G.703 and the European national regulatory documents specify minimum return loss levels. The transformers will allow these limits to be complied within the situations where they are applicable.

Frequency	50-100 KHz	100 KHz-2 MHz	2-3 MH z	
Return Loss				
XMIT	9 dB	15 dB	11 dB	
RCV	12 dB	18 dB	14 dB	

- 7. Surge Voltage Capability All transformers and chokes meet surge voltage tests according to the most stringent regulatory documents, when used with the proper voltage and current suppression devices:
 - Metallic Voltage: 800 V peak, 10/560 µsec Longitudinal Voltage: 2,400 V peak, 10/700 µsec
- 8. Isolation Voltage 100% of transformers are tested during production to the specified isolation voltage level.
- 9. General Information The transformers are specifically designed for use in 1.544 Mbps (T1), 2.048 Mbps (CEPT) and ISDN Primary Rate Interface (PRI) applications. They are matched to the majority of the line interface transceiver ICs currently available. Use of the proper transformer allows the interface circuit to comply with ITU-T G.703 and other standards regarding pulse waveform, return loss, and balance.
- **10. Transformer Selection Guide** Please contact Pulse Application Engineering or see our website for the latest Pulse Transformer Selection Guide.

For More Information:

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