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





Application Notes

- 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).
- **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.
- **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

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

- Isolation Voltage = 100% of transformers are tested during production to thespecified isolation voltage level.
- **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,
- 10. Transformer Selection Guide Please contact Pulse Application Engineering or see our website for the latest Pulse Transformer Selection Guide.

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