

T1/E1/CEPT/ISDN-PRI INTERFACE MODULES

Four Transformer Modules for Dual SMT
T1/E1 Ports, Extended Temperature Range

Application Notes

- 1. Flammability** - Materials used in these products are recognized as UL94-VO approved. Products meet the requirements of IEC 695-2-2 (Needle Flame Test).
- 2. Balance Characteristics** - The transformers meet the requirements for longitudinal balance of FCC part 68.
- 3. Common Mode Rejection Ratio** - the CMRR for all transformers is better than 50 dB at 1 MHz.
- 4. 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.
- 5. Return Loss** - ITU-T G703 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	100KHz-2 MHz	2-3 MHz
Return Loss			
XMIT	9 dB	15 dB	11 dB
RCV	12 dB	18 dB	14 dB

- 6. 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.

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