

Pulse[®]
A TECHNITROL COMPANY



- ### Electrical Specifications @ 25°C — Operating Temperature -40°C to +85°C

NOTE: Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (ex: T3020T and T3020NLT).

Schematics

Dimensions: $\frac{\text{Inches}}{\text{mm}}$
Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

T3/DS3/E3/STS-1 TRANSFORMERS

Dual SMT, Extended Temperature Range



Application Notes

1. The transformers have been developed for use as transmit and receive transformers in T3 or DS3 links, using bit rates of 44.736Mbps and B3ZS coding on coaxial cable. The characteristics allow compliance with the pulse templates of CCITT G.703 as well as ATT T.A.34. The transformers are also suitable for the E3 interface at 34.368Mbps with HDB3 coding or STS-1 applications, at 51.84Mbps according to Bellcore TA-NWT-000253.
2. Bandwidth specifications are typical in a 75 Ω system. Return loss meets the requirements of G.703. Materials used in the products are UL94-V0 recognized. Products meet the requirements of IEC 695-2-2 (Needle Flame Test).
3. For those applications requiring a 1:1 turns ratio on the transmit side, use only one half of the secondary (2CT) winding.
4. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. TX3026T).
5. For other T3/DS3/E3/STS-1 Transformers, please see data sheets **T606**, **T619**, **T672**, **T663** and **T668**.
6. **Transformer Selection Guide** - Please contact Pulse Applications Engineering or see our website for the latest Pulse Transformer Selection Guide.

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