

T3/DS3/E3/STS-1 TRANSFORMERS

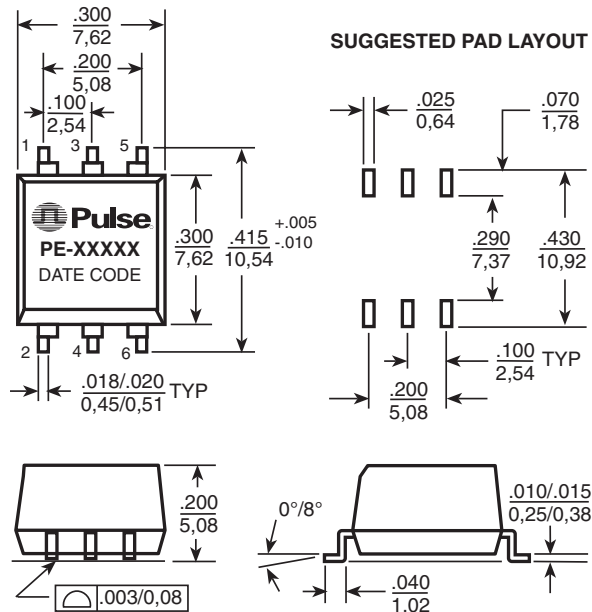
Designed for T3, DS3, E3 and
STS-1 Interfaces



Mechanical

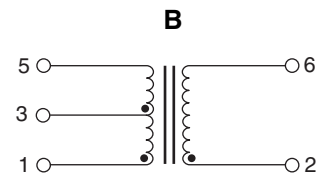
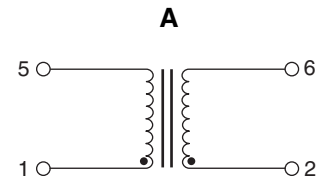
Schematics

TR-2

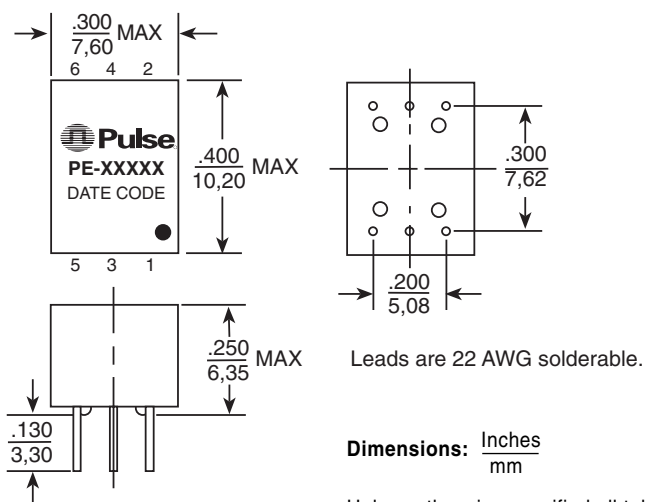


Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified all tolerances are $\pm \frac{.010}{0,25}$

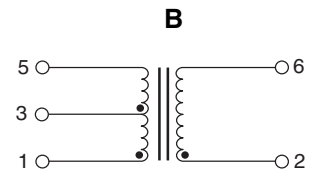
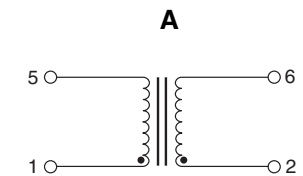


QC-1



Dimensions: $\frac{\text{Inches}}{\text{mm}}$

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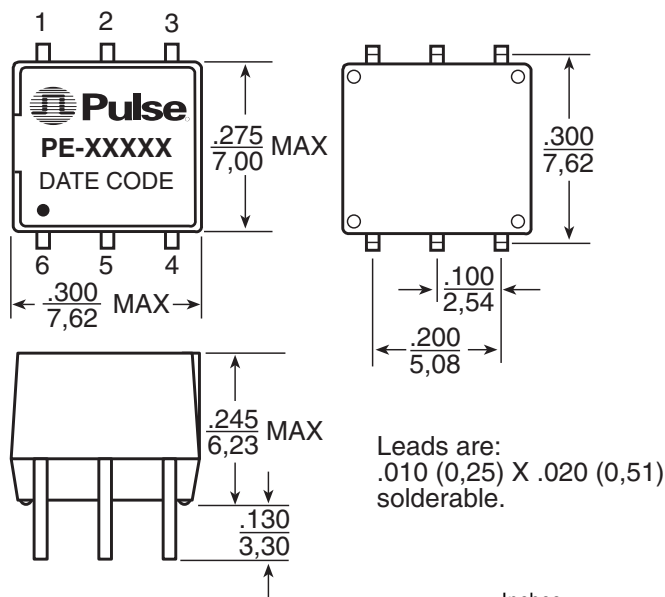
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Mechanical

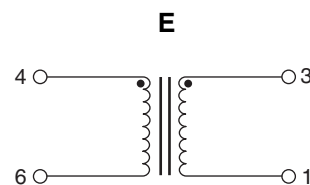
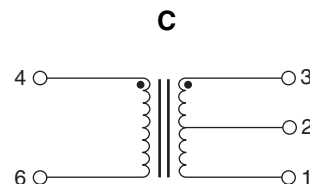
Schematics

LC-1

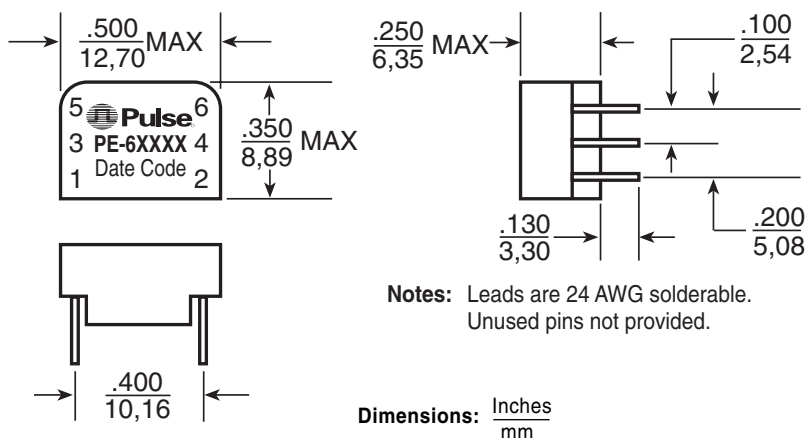


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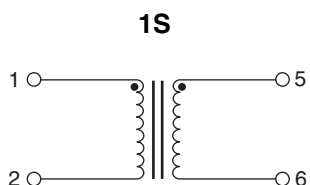
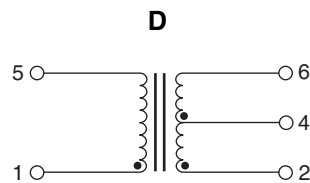
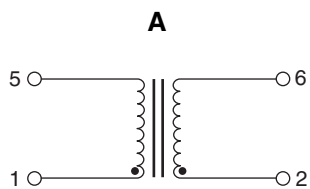
Unless otherwise specified all tolerances are $\pm \frac{.010}{0,25}$



HC-1



Unless otherwise specified all tolerances are $\pm \frac{.010}{0,25}$



T3/DS3/E3/STS-1 TRANSFORMERS

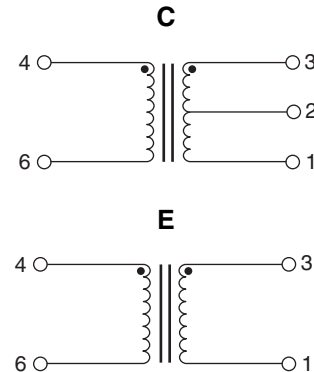
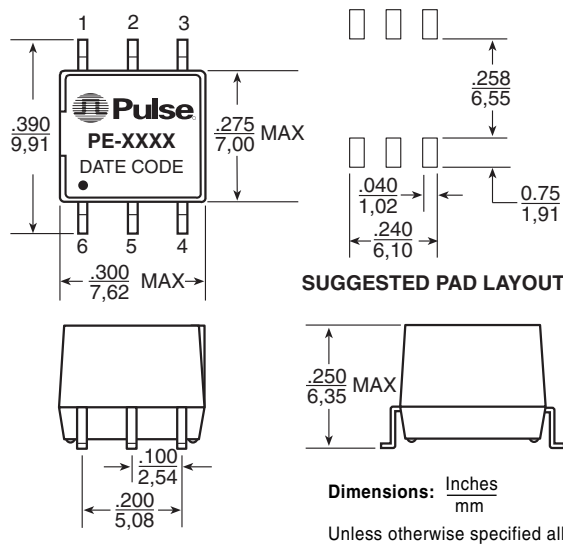
Designed for T3, DS3, E3 and STS-1 Interfaces



Mechanical

Schematics

LS-1



Transformer Selection Guide

Chip Manufacturer	Surface Mount		Through Hole (1500Vrms)		Through Hole (3000Vrms)	
	Transmit	Receive	Transmit	Receive	Transmit	Receive
Lucent T7296	PE-65967	—	PE-65966	—	PE-68629	—
Exar XR-T7296	PE-65967	—	PE-65966	—	PE-68629	—
Silicon Systems SSI 78P236, DS3	PE-65968	PE-65967	PE-65969	PE-65966	PE-68630	PE-68629
SSI 78P7200, DS3	PE-65968	PE-65967	PE-65969	PE-65966	PE-68630	PE-68629
SSI 78P7200, E3	PE-65968	PE-65968	PE-65969	PE-65969	PE-68630	PE-68630
SSI 78P2361, STS-1	PE-65968	PE-65967	PE-65969	PE-65966	PE-68630	PE-68629
SSI 78P2362, E3	PE-65968	PE-65967	PE-65969	PE-65966	PE-68630	PE-68629
Transwitch MRT TXC-02050 ⁵ , E3	PE-65968	PE-65967	PE-65969	PE-65966	PE-68630	PE-68629
ART 02020 DS3, STS-1	PE-65967	PE-65967	PE-65966	PE-65966	PE-68629	PE-68629

Application Notes

- 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 34.368 Mbps with HDB3 coding or STS-1 applications, at 51.84 Mbps according to Bellcore TA-NWT-000253. The LC-1 and QC-1 packages are pin compatible with T1-1 and T4-1 6-pin DIP packages.
- Bandwidth specifications are typical in a 75Ω 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).
- The surface mount LS-1 and TR-2 packages are available with optional tape and reel packaging. To order, add a "T" suffix to the part number (i.e.: PE-65967NLT).
- The Transwitch MRT TXC-02050 chip is also designed to operate in 6.312 and 8.448 Mbps interfaces. A 1:1 transformer (PE-64934) is recommended.

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