



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com





Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



T3/DS3/E3/STS-1 TRANSFORMERS

Extended Temperature Range



-  Operating temperature of -40°C to +85°C
-  Models matched to leading transceiver ICs
-  Return loss meets requirements of G.703
-  UL recognized (some parts pending)

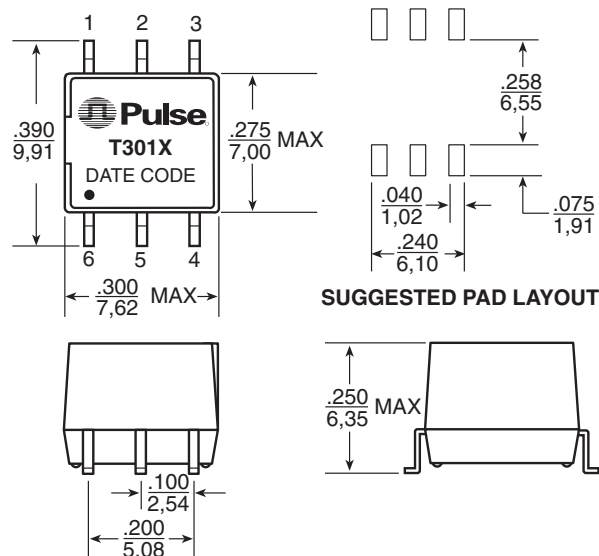
Electrical Specifications @ 25°C — Operating Temperature -40°C to +85°C

RoHS-5 Part No.	RoHS-6 Part No.	Turns Ratio Pri:Sec (±2%)	OCL Primary @ 25°C (μH MIN)	OCL Primary @ -40°C (μH MIN)	L _L @ 100kHz 0.2Vrms (μH TYP)	C _{ww} (pF MAX)	Bandwidth 75Ω System (MHz TYP)	Isolation Voltage (Vrms MIN)	Package/Schematic	Primary Pins
T3001	T3001NL	1:1	100	40	.110	10	.200 - 340	1500	LS-2/E	1-3
T3002	T3002NL	1:2CT	40	19	.110	12	.250 - 500	1500	LS-2/C	4-6
T3011*	T3011NL*	1:1	100	40	.110	10	.200 - 340	1500	LS-1/E	4-6
T3012*	T3012NL*	1:2CT	40	19	.110	12	.250 - 500	1500	LS-1/C	4-6
T3027	T3027NL	1CT:1CT	40	19	.10	10	.200 - 340	1500	LS-2/F	1-3
T3029	T3029NL	1:1.155CT	40	20	.150	12	.200 - 340	1500	LS-2/C	4-6

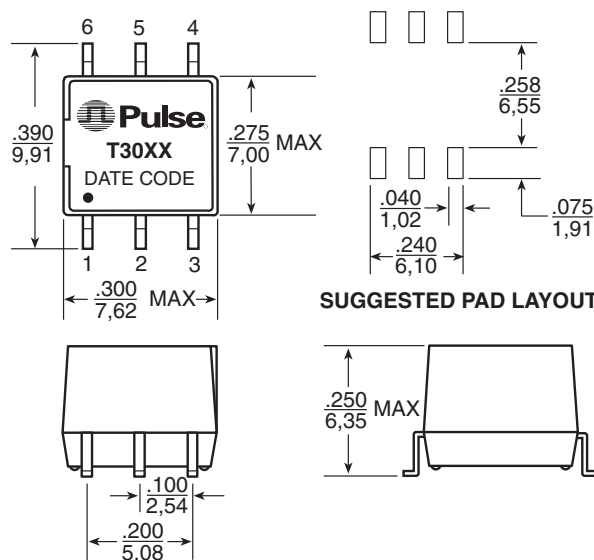
*Models with alternate pinout configurations.

Mechanicals

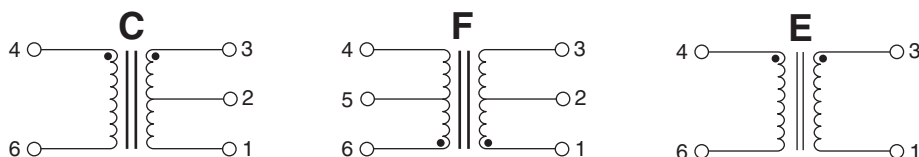
LS-1



LS-2



Schematics



Weight 0.6 grams
 Tape & Reel600/reel
 Tube70/tube

Dimensions: Inches
 mm

Unless otherwise specified,
 all tolerances are ± .010
 0,25

T3/DS3/E3/STS-1 TRANSFORMERS

Extended Temperature Range



Transformer Selection Guide

IC Manufacturer/ IC Part Number	Single SMT				Single THT		Single THT (3 kVrms)	
	Standard Temperature		Extended Temperature		Transmit	Receive	Transmit	Receive
	Transmit	Receive	Transmit	Receive				
Conexant (Rockwell) CN8331, CN8332, CN8333	PE-65967	PE-65967	T3001	T3001	PE-65966	PE-65966	PE-68629	PE-68629
Infineon Technologies PEB3452	-	-	T3027	T3011/T3001	-	-	-	-
Lucent Technologies T7296	PE-65967	-	T3001	-	PE-65966	-	PE-68629	-
Exar XRT7295, XRT7295E XRT7296, XRT7298 XRT73L00/L03/L04 XRT7300, XRT7302	- PE-65967 PE-65967 PE-65967	PE-65967 - PE-65967 PE-65967	- T3001 T3001 T3001	T3001 - T3001 T3001	- PE-65966 PE-65966 PE-65966	PE-65966 - PE-65966 PE-65966	- PE-68629 PE-68629 PE-68629	PE-68629 - PE-68629 PE-68629
TDK Semiconductor 78P2241 78P2244/43/42 78P7200L 78P7200 78P2361, 78P2362	PE-65968 PE-65968 PE-65968 PE-65968 PE-65968	PE-65967 PE-65967 PE-65967 PE-65967 PE-65967	T3002 T3002 T3002 T3002 T3002	T3001 T3001 T3001 T3002 T3001	PE-65969 PE-65969 PE-65969 PE-65969 PE-65969	PE-65966 PE-65966 PE-65966 PE-65969 PE-65966	PE-68630 PE-68630 PE-68630 PE-68630 PE-68630	PE-68629 PE-68629 PE-68629 PE-68630 PE-68629
Transwitch MRT TXC-02050, E3 ART TXC-02020 ARTE TXC-02021 DART TXC-2030, DS3 DART TXC-2030, E3 DS3LIM-SN TXC-20153G E3LIM TXC-20163	PE-65968 PE-65967 PE-65967 PE-65967 PE-65968 PE-65967 PE-65968	PE-65967 PE-65967 PE-65967 PE-65967 PE-65967 PE-65967 PE-65967	T3002 T3001 T3001 T3001 T3002 T3001 T3002	T3001 T3001 T3001 T3001 T3001 T3001 T3001	PE-65969 PE-65966 PE-65966 PE-65966 PE-65969 PE-65966 PE-65966	PE-65966 PE-65966 PE-65966 PE-65966 PE-65966 PE-65966 PE-65966	PE-68630 PE-68629 PE-68629 PE-68629 PE-68630 PE-68629 PE-68629	PE-68629 PE-68629 PE-68629 PE-68629 PE-68629 PE-68629 PE-68629

NOTE: For Standard temperature products, please see data sheet **T606**.

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 34.368Mbps with HDB3 coding or STS-1 applications, at 51.84Mbps according to Bellcore TA-NWT-000253.
- 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 package is available with optional tape and reel packaging. To order, add a "T" suffix to the part number (i.e.: T3001NLT).

For More Information:

Pulse Worldwide Headquarters

12220 World Trade Dr.
San Diego, CA 92128
U.S.A.
www.pulseeng.com

Tel: 858 674 8100
Fax: 858 674 8262

Pulse Europe

Einsteinstrasse 1
D-71083 Herrenberg
Germany

Tel: 49 7032 7806 0
Fax: 49 7032 7806 12

Pulse China Headquarters

B402, Shenzhen
Tech-Innovation International
Tenth Kejinan Rd.
High-Tech Industrial Park
Nanshan District, Shenzhen
China

Tel: 86 755 33966678
Fax: 86 755 33966700

Pulse North China

Room 1503
XinYin Building
No. 888 YiShan Rd.
Shanghai 200233
China

Tel: 86 21 54643211/2
Fax: 86 21 54643210

Pulse South Asia

150 Kampong Ampat
#07-01/02
KA Centre
Singapore 368324

Tel: 65 6287 8998
Fax: 65 6280 0080

Pulse North Asia

No. 26
Kao Ching Rd.
Yang Mei Chen
Tao Yuan Hsien
Taiwan, R. O. C.

Tel: 886 3 4641811
Fax: 886 3 4641911

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2007. Pulse Engineering, Inc. All rights reserved.