

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 Dual SMT, Extended Temperature Range





- Dual SMT package contains both transmit and receive transformers
- Operating temperature of -40°C to +85°C
- Models matched to leading transceiver ICs
- Return loss meets requirements of G.703
- 1500Vrms isolation per UL1459 and UL1950

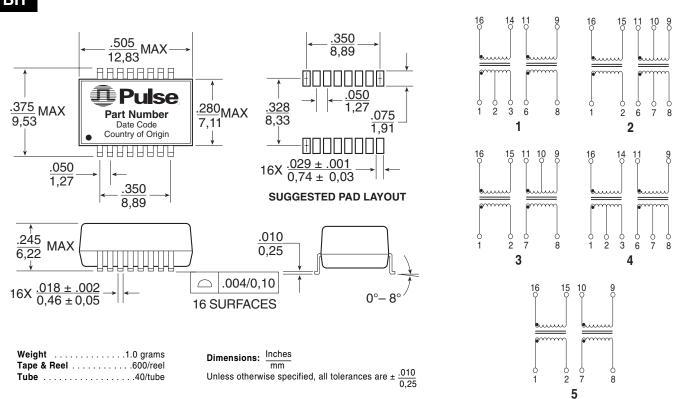
Electrical Specifications @ 25°C — Operating Temperature -40°C to +85°C													
RoHS-5 Compliant Part No.	RoHS-6 Compliant Part No.	Turns Ratio (±2%)		OCL Primary @ 25°C (µH MIN)		L _L (μΗ MAX)		C _{w/w} (pF MAX)		Isolation Voltage (Vrms MIN)	Package/ Schematic	Primary Pins	
		TX	RX	TX	RX	TX	RX	TX	RX	(VIIIIO IVIIIV)		TX	RX
T3020	T3020NL	1:2CT	1:1	40	100	.120	.120	10	10	1500	BH/1	16-14	6-8
T3021	T3021NL	1:2CT	1:2CT	40	40	.100	.100	10	10	1500	BH/4	16-14	11-9
T3023	T3023NL	1:1	1:1	40	40	.110	.110	10	10	1500	BH/5	1-2	7-8
TX3025	TX3025NL	1CT:1CT	1:1	100	100	.120	.120	10	10	1500	BH/2	6-8	16-15
TX3026	TX3026NL	1:2CT	1:1	100	100	.120	.120	10	10	1500	BH/3	7-8	16-15

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

Mechanicals

Schematics

 BH



USA 858 674 8100 • Germany 49 7032 7806 • Singapore 65 6287 8998 • Shanghai 86 21 54643211/2 • China 86 769 85538070 • Taiwan 886 3 4641811

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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 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).
- 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.

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 116 Fax: 49 7032 7806 135 Pulse China Headquarters

No. 1 Industrial District Changan, Dongguan China

Tel: 86 769 85538070 Fax: 86 769 85538870 Pulse North China Room 1503 XinYin Building No. 888 YiShan Rd.

Shanghai 200233 China Tel: 86 21 546432

Tel: 86 21 54643211/2 Fax: 86 21 54643210 Pulse South Asia 150 Kampong Ampat #07-01/02 KA Centre

KA Centre Singapore 368324

Tel: 65 6287 8998 Fax: 65 6280 0080 Pulse North Asia

No. 26 Kao Ching Rd. Yang Mei Chen Taoyuan Hsien Taiwan, R. O. C. Tel: 886 3 4641811 Fax: 886 3 4641911

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