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ISDN S-INTERFACE LOW PROFILE DUAL SMT TRANSFORMERS





- RoHS peak reflow temperature rating 245°C
- Meets pulse waveform template of CCITT I.430 when recommended transformer and chip pair are used
- Excellent longitudinal balance
- 2 KVrms isolation voltage
- Available in Tape & Reel or tube packaging
- UL recognized

Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C													
RoHS Compliant Part Number	Ratio ^A (±2%)		OCL Pri (mH MIN)	LL Sec (μΗ ΜΑΧ)		CW/W (pF MAX)	CD Pri ^B (pF MAX)		DCR Pri (Ω ±25%)		DCR Sec (W ±25%)		D I _{DC} C
	Α	В	A & B	Α	В	A & B	Α	В	Α	В	Α	В	
T5005NL	1:2.5	1:2.5	22	40	40	100	110	110	2.4	2.4	5.3	5.3	1
T5007NL	1:2	1:2	22	5	5	100	80	80	2.4	2.4	4.2	4.2	1
T5008NL	1:1	1:1	22	5	5	100	42	42	2.4	2.4	2.4	2.4	1
T5010NL	1:1.8	1:1.8	22	15	15	100	160	160	2.4	2.4	3.8	3.8	1

U.S. Patent No. 5,015,981Z

A. A center-tapped winding can be created by connecting two ends of a split center winding together on the printed circuit board. In ISDN-S applications, the primary winding is the line side transformer winding.

B. Minimum primary inductance and maximum distributed capacitance satisfy the transmitter output and receiver input impedance requirements of CCITT I.430 for both the TE and the NT. The maximum distributed capacitance allows sufficient margin for the capacitance of the IC and a protection diode network. It is consistent with the overall maximum value specified and the permitted length of the basic access TE cord.

C. The maximum specified unbalanced DC current capability is based on 20 mH minimum primary OCL.

See next page for detailed packaging information.



ISDN S-INTERFACE LOW PROFILE DUAL SMT TRANSFORMERS

IC Manufacturer	IC Part Number	Dual Surface Mount			
		TX & RX			
AT&T/Lucent	T7250/7256/7259 T7903	T5005NL T5007NL			
Mietec	MTC-2072	T5007NL			
Mitel	MT8930	T5007NL			
Motorola	MC145474/145475 MC145574	T5008NL T5005NL			
National [*]	TP3420/3421	T5007NL			
SGS Thomson	ST5420, ST5421	T5007NL			
Siemens	PEB 2080/2081/2085 PSB 2186 PEB 2084/2086	T5007NL			
Yamaha	7405B, YTD421	T5007NL			
В	29C53	T5010NL			

***NOTE:** National recommends a 1:2 receive transformer, but used as a 1:1 ratio by connecting only half the secondary winding.

Application Notes

 General Information – The S-interface is the standardized four-wire digital telephone access point defined by the CCITT I-series recommendations for the Integrated Services Digital Network. This "basic rate access" accommodates two 64 Kbps "B-channels" for information, one 16Kbps "D-channel" intended for signaling and control, and 48Kbps for framing and other purposes, giving a total rate of 192Kbps. The CCITT physical layer recommends that the user network interface be transformer coupled.

The transformeAr provides isolation for the line card or the terminal from the line. It is also a way to provide phantom power feeding to the terminal over the S-loop. Each end requires a transmit and a receive transformer. Chokes are used in some applications to reduce common mode noise.

Transformers described in this data sheet are matched to the transceivers offered by the IC manufacturers listed.



Packaging Information

Туре	SMT
Part Weight	7 grams
Parts/Tube	20
Parts/Tray*	50
Parts/Reel*	200
Reel Diameter	13 inches
Tape Width	44 mm
Pitch	24 mm

***NOTE:** Standard packaging for all transformers on this data sheet is anti-static tubes. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the end of the part number, (i.e: T5005NLT).

The use of a transformer-chip pair assures that all requirements of CCITT I.430 are met with respect to pulse waveform templates, impedance and longitudinal balance. In addition, the transformers provide the isolation voltages required by the regulatory agencies and are capable of passing surge voltage tests.

- 2. Safety Standards Recognition All transformers listed in this data sheet are recognized to UL 1459 and UL 1950 as a basic insulation barrier.
- Flammability Materials used in the products are recognized UL94-VO. Products meet the requirements of IEC 695-2-2 (needle flame test).
- 4. For more application notes please refer to data sheet T604.

Common Mode Chokes

Refer to data sheet G002 for selection of low and high frequency common mode chokes.

For More Information:

Pulse Worldwide Headquarters 12220 World Trade Dr. San Diego, CA 92128 U.S.A.	Pulse Europe Einsteinstrasse 1 D-71083 Herrenberg Germany	Pulse China Headquarters B402, Shenzhen Academy of Aerospace Technology Bldg. 10th Kejinan Rd. High-Tech Zone Nanshan District	Pulse North China Room 2704/2705 Super Ocean Finance Ctr. 2067 Yan An Rd. West Shanghai 200336 China	Pulse South Asia 135 Joo Seng Rd. #03-02 PM Industrial Bldg. Singapore 368363	Pulse North Asia 3F, No. 198 Zhongyuan Rd. Zhongli City Taoyuan County 320 Taiwan R. O. C.
www.pulseeng.com Tel: 858 674 8100 Fax: 858 674 8262	Tel: 49 7032 7806 0 Fax: 49 7032 7806 135	Shenzen, PR China 518057 Tel: 86 755 33966678 Fax: 86 755 33966700	Tel: 86 21 62787060 Fax: 86 2162786973	Tel: 65 6287 8998 Fax: 65 6287 8998	Tel: 886 3 4356768 Fax: FRE 886 3 4356820 Pulse: 886 3 4356823

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