ISDN S-INTERFACE LOW PROFILE DUAL SMT TRANSFORMERS







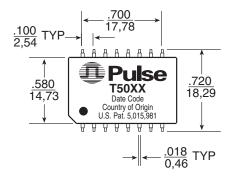
- Meets pulse waveform template of CCITT I.430 when recommended transformer and chip pair are used
- Excellent longitudinal balance
- 2KVrms isolation voltage
- Available in tape and reel, or tube packaging
- 235°C peak solder reflow temperature rating
- UL recognized

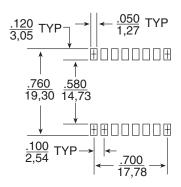
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C														
RoHS-5 Part No.	RoHS-6 Part No.		t io ^A 2%)	OCL Pri (mH MIN)		Sec MAX)	Cw/w (pF MAX)		Pri ^B MAX)	DCR (Ω ±2		DCR (Ω ±2	Sec 25%)	∆ Inc ^c
		Α	В	A & B	Α	В	A & B	Α	В	Α	В	Α	В	(mA MAX)
T5005	T5005NL	1:2.5	1:2.5	22	40	40	100	110	110	2.4	2.4	5.3	5.3	1
T5006	T5006NL	1:2	1:2	22	11	11	100	180	180	2.4	2.4	4.4	4.4	1
T5007	T5007NL	1:2	1:2	22	5	5	100	80	80	2.4	2.4	4.2	4.2	1
T5008	T5008NL	1:1	1:1	22	5	5	100	42	42	2.4	2.4	2.4	2.4	1
T5010	T5010NL	1:1.8	1:1.8	22	15	15	100	160	160	2.4	2.4	3.8	3.8	1

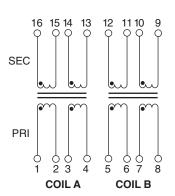
U.S. Patent No. 5,015,981

Mechanical

TSJ

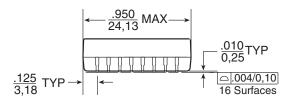


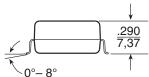




Schematic







Dimensions: Inches mm

Unless otherwise specified all tolerances are $\pm \frac{.010}{0.25}$

(See other side for packaging information)

ISDN S-INTERFACE LOW PROFILE DUAL SMT TRANSFORMERS



IC Manufacturer	IC Part Number	Dual Surface Mount		
		Trans & Rec		
AMD	Am 79C30A/79C32A	T5006		
AT&T/Lucent	T7250/7256/7259 T7903	T5005 T5007		
Mietec	MTC-2072	T5007		
Mitel	MT8930	T5007		
Motorola	MC145474/145475 MC145574	T5008 T5005		
National ^D	TP3420/3421	T5007		
SGS Thomson	ST5420, ST5421	T5007		
Siemens	PEB 2080/2081/2085 PSB 2186 PEB 2084/2086	T5007		
Yamaha	7405B, YTD421	T5007		
Intel	29C53	T5010		

Notes

- 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.
- D. National recommends a 1:2 receive transformer, but used as a 1:1 ratio by connecting only half the secondary winding.
- E. 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, (i.e: T5005NLT).

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

Application Notes

1. 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 64Kbps "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 transformer 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.

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

- Safety Standards Recognition All transformers listed in this data sheet are recognized to UL 1459 and UL 1950 as a basic insulation barrier.
- 3. 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

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

For More Information:

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