

ISDN S-INTERFACE TRANSFORMERS AND CHOKES For PCMCIA Applications



- 🔌 Developed for Type 2 PCMCIA cards
- 🔌 Meets the pulse waveform requirements of I.T.U. I.430 when transformer and chip pair are used
- 🔌 Excellent longitudinal balance and impedance matching
- 🔌 1500 Vrms isolation voltage
- 🔌 EN60950 approved to basic isolation
- 🔌 Available in Tape & Reel or Tube

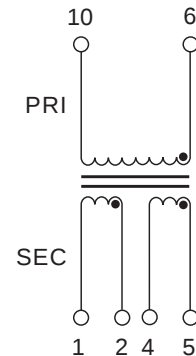
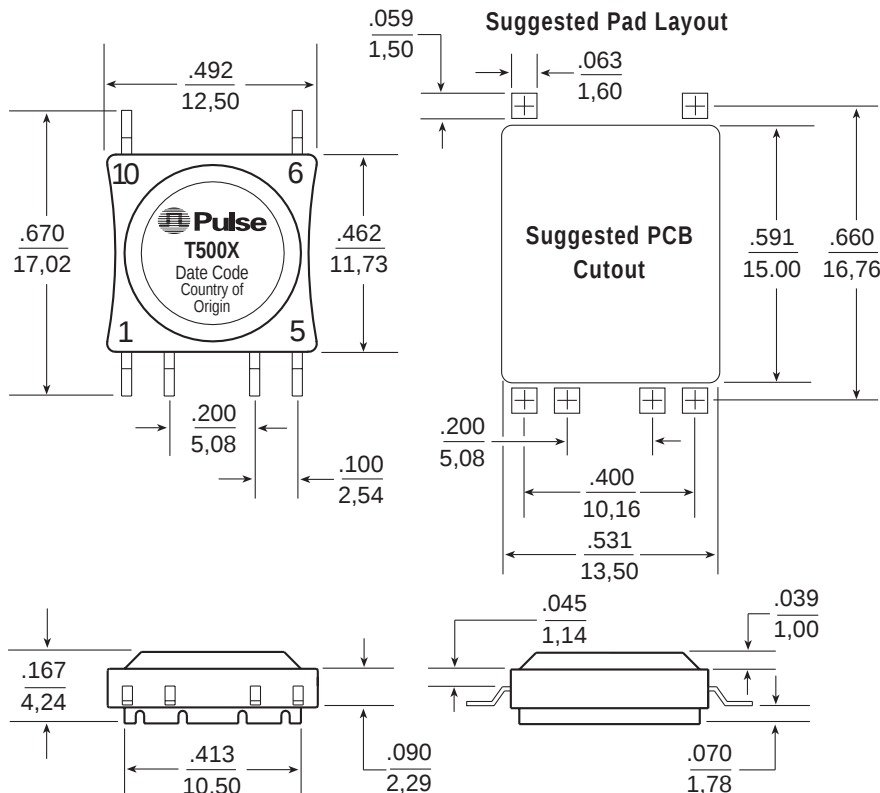
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

Part Number	Turns Ratio (Pri:Sec)	OCL Primary (mH MIN)	Leakage Inductance (μH MAX)	C _{ww} (pF MAX)	C _D (pF MAX)	DCR (Ω Typical) Pri Sec		Isolation Voltage (Vrms)	Package/ Schematic
T5002	1:1	22	5	40	25	1.5	1.5	1500	BAW/1
T5003	1:2	22	5	40	25	1.5	3	1500	BAW/1
T5004	1:2.5	22	5	50	25	1.5	3.8	1500	BAW/1

Mechanicals

Schematic 1

BAW



Weight0.87 grams
Tape & Reel800/reel
Tube38/tube

Dimensions: Inches
mm

Unless otherwise specified,
all tolerances are ± .010
0.25

NOTE: Contact Factory for alternate lead forming to optimize your application.

ISDN S-INTERFACE TRANSFORMERS AND CHOKES For PCMCIA Applications



Application

This series of transformers is specifically intended for ISDN BRI-4 wire S-interfaces defined by I.T.U. I.430 recommendations for the Integrated Services Digital Network.

IC Manufacturer	IC Part Number	Transmit	Receive
AMD	AM 79C30A, 79C32A	T5003	T5003
AT&T	T7250C, T7256, T7259	T5004	T5004
Mitel	MT8930	T5003	T5003
Motorola	MC145474, MC145475 MC145574	T5002 T5004	T5002 T5004
National	TP3420, TP3421	T5003	T5003
SGS Thompson	ST 5420	T5003	T5003
Siemens	PEB2080, 2081, 2084 PEB2085, 2086, 2186	T5003 T5003	T5003 T5003

Notes:

1. Primary pins are (10,6). Secondary pins are (1,5).
2. Turns ratio is expressed as "primary:secondary". The primary winding is considered to be the line side winding.
3. **Flammability:** materials used in the products are UL94-VO recognized. Products meet the requirements of IEC 695-2-2 needle flame test.
4. **Safety Standards:** All transformers listed in this data sheet are designed to meet EN60950 as a basic insulation barrier (BABT Certificate #CR/607237).
5. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. T5002T).

Common Mode Choke

Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

Part Number	OCL (μ H MIN)	Leakage Inductance (μ H MAX)	C _D (pF MAX)	DCR (Ω MAX)	Common Mode Attenuation at 30 MHz (db)	Isolation Voltage (Vrms MIN)	Package/ Schematic
PE-65854	47.0	.18	16	0.30	28	500	SH-4C (SMT) See G002

Common mode filter chokes provide an effective means of reducing EMI for compliance with national and international regulations. The choke listed above is designed for 4-wire interfaces and is specified in catalog G002. High inductance chokes, used to improve the longitudinal balance of the interface circuit, will be available in PCMCIA type 2 format.

For More Information :

Corporate

12220 World Trade Drive
San Diego, CA 92128
Tel: 619 674 8100
FAX: 619 674 8262
<http://www.pulseeng.com>
Quick-Facts: 619 674 9672

Europe

1 & 2 Huxley Road
The Surrey Research Park
Guildford, Surrey GU2 5RE
United Kingdom
Tel: 44 1483 401700
FAX: 44 1483 401701

Asia

P.O. Box 26-11, KEPZ
6 Central Sixth Road
KEPZ, Kaohsiung
Taiwan, R.O.C.
Tel: 886 7 821 3141
FAX: 886 7 841 9707

Distributor

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.