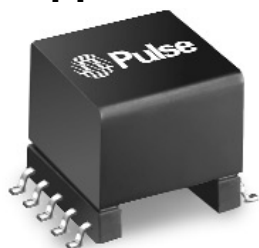


ISDN U-INTERFACE TRANSFORMERS SMALL SURFACE MOUNT PACKAGE For Applications in 2B1Q and 4B3T Coding



Pulse
A TECHNITROL COMPANY

**Small Surface
Mount Package**



- Matched to leading transceiver ICs
- Meets ANSI T1.601-1992 and ETSI ETR 080 standards for longitudinal balance, linearity and return loss
- Small compact footprint and minimum Isolation: 1500 Vrms

Electrical Specifications @ 25°C

Part Number	Turns Ratio Line:Chip (±2%)	Line Side Pins	OCL Line side (mH)	DCR Line Side (Ω)	DCR Chip Side (Ω)	Isolation Voltage (Vrms MIN)	Idc (mA)	Schematic
T4031	1.65CS:1CT	(1-5)	13-18	14.00 MAX	7.00 MAX	1500	50	A
T4032	1.25CS:1CT	(1-5)	11.9-16.1	6.40 MAX	4.40 MAX	1500	50	A
T4033	1.25CS:1CT	(1-5)	25.5-30.5	15.66 MAX	10.65 MAX	1500	40	B
T4043*	2CS:1CS	(1-5)	13.5-16.5	7.00 MAX	3.50 MAX	1500	50	C
T4067	1.32CS:1	(1-5)	7.5-8.3	3.20 MAX	2.50 MAX	1500	55	D

Additional Specifications

Part Number	Return Loss	Longitudinal Balance
T4031	10 kHz to 25 kHz @ 20 dB MIN	281 Hz to 40 kHz @ 55 dB MIN
T4032	15 kHz to 50 kHz @ 16 dB MIN	20 kHz to 150 kHz @ 40 dB MIN
T4033	10 kHz to 25 kHz @ 20 dB MIN	281 Hz to 40 kHz @ 55 dB MIN
T4043*	10 kHz to 25 kHz @ 20 dB MIN	281 Hz to 40 kHz @ 55 dB MIN
T4067	15 kHz to 50 kHz @ 16 dB MIN	15 kHz to 50 kHz @ 40 dB MIN

NOTES: Common Mode Chokes for EMI reduction are also available. Recommended part numbers are either **PE-68624** (Surface Mount) or **PE-65944** (Through Hole) — see data sheet **G002**. Six Sigma analysis has substantiated that **T4033** line side inductance may range from 25.5 to 30.5 mH. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (ex: T4031T).

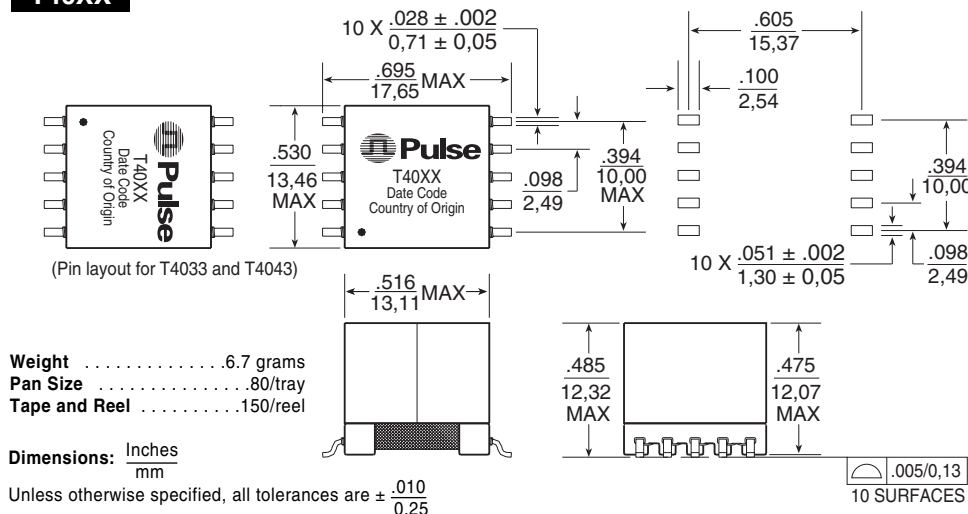
*Provisional Specifications

Transformer Selection

Company	Chip	Transformer
Motorola	MC145572	T4033
Infineon	PEB 2091	T4031
	PEB 8091/8191	T4031
	PEB 24902/24911	T4031
	PSB 21910/21911	T4031
	PEB 2491	T4032
Alcatel	PEB 20901	T4067
	MTC 20276	T4043

Mechanical

T40XX



For More Information :

UNITED STATES (Worldwide)

12220 World Trade Drive
San Diego, CA 92128
U.S.A.
<http://www.pulseeng.com>
TEL: 858 674 8100
FAX: 858 674 8262

UNITED KINGDOM (Northern Europe)

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

FRANCE (Southern Europe)

Zone Industrielle
F-39270
Orgelet
France
TEL: 33 3 84 35 04 04
FAX: 33 3 84 25 46 41

SINGAPORE (Southern Asia)

150 Kampong Ampat
#07-01/02
KA Centre
Singapore 368324
TEL: 65 6287 8998
FAX: 65 6280 0080

TAIWAN, R.O.C. (Northern Asia)

3F-4, No. 81, Sec. 1
HsinTai Wu Road
Hsi-Chih, Taipei Hsien
Taiwan, R.O.C.
Tel: 886 2 2698 0228
FAX: 886 2 2698 0948

HONG KONG (China/Hong Kong)

9/F, Phase 2, Tai Sang
Shatin Warehouse Centre
6 Wong Chuk Yeung Street
Fotan, Shatin, Hong Kong
TEL: 852 2788 6588
FAX: 852 2776 1055

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.

Printed on recycled paper. ©2003, Pulse Engineering, Inc. All Rights Reserved.

T624.A (9/03)