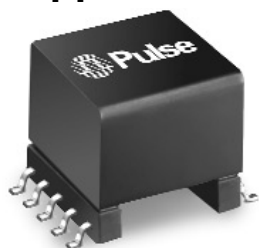


ISDN U-INTERFACE TRANSFORMERS SMALL SURFACE MOUNT PACKAGE For Applications in 2B1Q and 4B3T Coding



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).

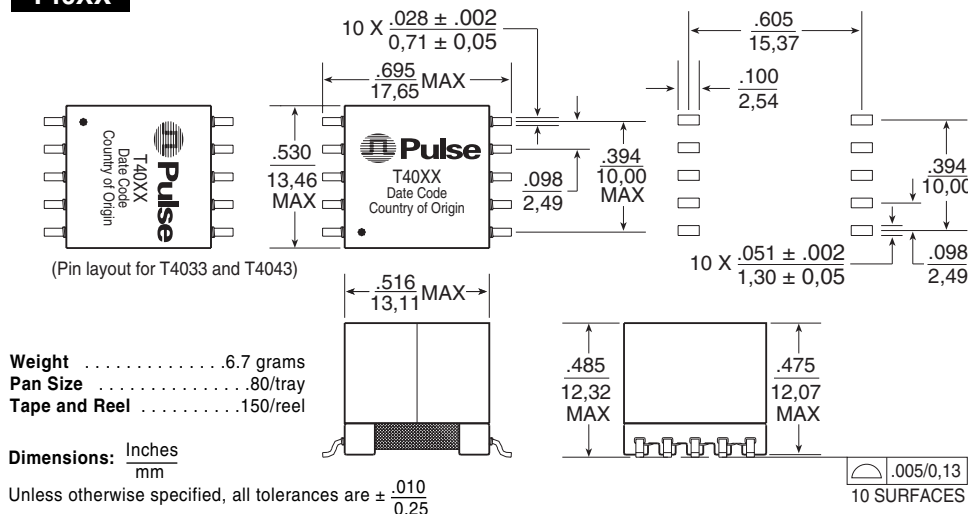
*Provisional Specifications

Transformer Selection

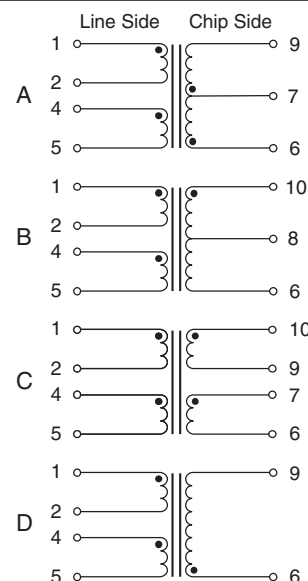
Company	Chip	Transformer
Motorola	MC145572	T4033
Infineon	PEB 2091	T4031
	PEB 8091/8191	T4031
	PEB 24902/24911	T4031
	PSB 21910/21911	T4031
	PEB 2491	T4032
Alcatel	PEB 20901	T4067
	MTC 20276	T4043

Mechanical

T40XX



Schematics



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