

T1/CEPT/ISDN-PRI TRANSFORMERS

Dual Surface Mount, 1500Vrms, Extended and Standard Temperature Range



- Dual SMT package contains both transmit and receive transformers
- Models matched to leading transceiver ICs
- Isolation voltage: 1500Vrms
- UL recognized
- RoHS compliant versions available

Electrical Specifications @ 25°C

Part Number	Turns Ratio ^B (Pri:Sec ± 2%)	OCL @ 25°C (mH MIN)	L _L (μH MAX)	C _{w/w} (pF MAX)	DCR Pri (Ω MAX)	DCR Sec (Ω MAX)	Package/ Schematic	Primary Pins
EXTENDED TEMPERATURE RANGE MODELS¹ – OPERATING TEMPERATURE -40°C TO +85°C								
PE-68841	1CT:2CT & 1CT:2CT	1.20 & 1.20	0.80 & 0.80	50 & 50	1.00 & 1.00	1.70 & 1.70	AN/2	12-10, 4-6
PE-68822	1CT:2CT & 1:1.36CT	1.60 & 1.60	1.00 & 0.80	60 & 55	1.70 & 1.70	2.00 & 1.70	AN/1	12-10, 4-6
PE-68825	1:1.15CT & 1CT:2CT	1.60 & 1.60	0.80 & 0.80	60 & 50	1.00 & 1.00	1.20 & 2.00	AN/4	12-10, 4-6
PE-68826 ^E	1:1/1.26 & 1:2CT	1.20 & 1.20	0.80 & 0.80	50 & 60	1.00 & 1.00	1.10 & 1.70	AN/5	12-10, 4-6
PE-68827	1:1CT & 2:1	1.60 & 1.60	1.30 & 1.30	55 & 40	1.10 & 1.10	1.10 & 0.70	AN/6	1-3, 4-6
PE-68828	1CT:1CT & 1CT:1CT	1.20 & 1.20	0.80 & 0.80	50 & 50	1.00 & 1.00	1.00 & 1.00	AN/2	1-3, 4-6
PE-68874	1CT:1.15CT & 1CT:1.15CT	1.20 & 1.20	0.80 & 0.80	50 & 50	1.20 & 1.20	1.40 & 1.40	AN/2	1-3, 4-6
PE-68877	1CT:1CT & 1CT:2CT	1.20 & 1.20	0.80 & 0.80	50 & 50	1.00 & 1.00	1.00 & 1.80	AN/2	1-3, 4-6
PE-68882	1CT:1.15CT & 1CT:1CT	1.60 & 1.60	0.80 & 0.80	60 & 60	1.20 & 1.20	1.40 & 1.20	AN/2	12-10, 4-6
PE-68884	1CT:1.36CT & 1CT:1.36CT	1.20 & 1.20	0.80 & 0.80	50 & 50	1.20 & 1.20	1.40 & 1.40	AN/2	1-3, 4-6
PE-68887	1CT:1.41CT & 1CT:1.41CT	1.20 & 1.20	0.80 & 0.80	50 & 50	1.40 & 1.40	1.20 & 1.20	AN/2	12-10, 9-7
PE-68881	1CT:2.3CT & 1CT:2CT	1.20 & 1.20	0.80 & 0.80	60 & 50	1.20 & 1.20	2.10 & 2.10	AN/2	10-12, 4-6
TX1277	1CT:1CT & 1CT:2CT	1.20 & 1.20	0.80 & 0.80	50 & 50	1.00 & 1.00	1.00 & 1.80	AN/2	1-3, 4-6
STANDARD TEMPERATURE RANGE MODELS – OPERATING TEMPERATURE 0°C TO +70°C								
T1131 ¹	1CT:1 & 1:1.36CT	0.70 & 0.70	0.70 & 0.70	20 & 20	0.25 & 0.50	0.80 & 0.40	AN/7	1-3, 9-7
PE-68861	1CT:2CT & 1CT:2CT	1.20 & 1.20	0.60 & 0.60	35 & 35	0.70 & 0.70	1.20 & 1.20	AN/2	12-10, 4-6
PE-68862	1CT:2CT & 1:1.36CT	1.20 & 1.20	0.60 & 0.80	35 & 37	0.70 & 0.70	1.20 & 0.90	AN/1	12-10, 4-6
PE-68863	1:2CT & 1:1.14CT	1.20 & 1.20	0.55 & 0.80	40 & 35	0.70 & 0.70	1.20 & 0.90	AN/5	12-10, 4-6
PE-68864 ^A	1CT:2CT & 1:1	1.20 & 1.20	0.30-0.55 & 0.80	30 & 30	0.70 & 0.70	1.20 & 0.70	AN/3	1-3, 5-6
PE-68865	1:1.15CT & 1CT:2CT	1.50 & 1.20	0.80 & 0.60	35 & 35	0.70 & 0.70	0.90 & 1.20	AN/4	12-10, 4-6
PE-68866 ^E	1:1/1.26 & 1:2CT	1.50 & 1.20	0.40 & 0.50	40 & 40	0.70 & 0.70	0.90 & 1.20	AN/5	12-10, 4-6
PE-68869	1CT:2CT & 1:1.08CT	1.20 & 1.20	0.60 & 0.60	40 & 30	0.70 & 0.70	1.10 & 0.90	AN/1	12-10, 4-6
PE-68836 ^E	1:1/1.26 & 1:1/1.26	1.50 & 1.50	0.40 & 0.40	45 & 45	0.80 & 0.80	1.00 & 1.00	AN/7	12-10, 9-7

Note: RoHS-6 compliant parts can be ordered by adding an "NL" suffix to the part number (i.e. PE-68841 becomes PE-68841NL). (See Pages 6 and 7 for Table Notes)

Mechanical

Schematics

AN

Dimensions: .675 MAX (17,15), .600 MAX (15,24), .085 (2,16), .100 (2,54), .456 MAX (11,58), .340 MAX (8,64), .040/0,10 MAX, .120 (3,05), .050 TYP (1,27), .640 (16,26), .400 (10,16), .500 (12,70), .100 TYP (2,54), 0°-8°

SUGGESTED PAD LAYOUT

1 2 3 4 5 6 7

Weight 4.0 grams
Tape & Reel250/reel
Tube30/tube

Dimensions: Inches
mm
Unless otherwise specified,
all tolerances are ± .010
0,25