

- TUV, BABT Pending
- UL Approved to UL1459 #E167631, UL 1950
- Small size, low profile
- Designed for modem speeds from V.22 TO V.34

Part No.	Fig. No.	Impedance PRI:SEC	maDC Unbal. IL dB	FR ±dB	PRI DCR	SEC DCR	Sch.	Cross Ref.	Modem Speed	HIPOT VAC
UL-770713	C	600:600	90	2.0	1	68	91	13	TTC142/TTC143	1500
UL-771220	C	600:600	90	3.0	.90	100	210	12	671-1600	1500
UL-790709	C	600:1200CT	90	1.6	.50	75	190	14	671-1489	1500
SA-80415-1	A	600:600	0	.85	.20	43	43	12	671-1538	V.32 1250
SA-810281	B	600:470	100	2.0	.65	108	120	11A	671-8015/ 8001	V.29 1250
SA-810525	B	600:374	0	2.0	.25	108	120	11A	671-8025	V.32 bis 1250
SA-810672	B	600:374	0	2.0	.25	108	120	11A	671-8031	V.32 bis 1250
SA-810727	B	600:600	0	1.75	.15	95	100	11A	671-8000	1500
SA-810894	C	600:464	80	2.0	.50	80	100	12	671-8273	V.32 bis 1250
SA-830139	B	600:301	0	2.0	.25	150	150	11A	671-8039	V.32 bis 1250
SA-830175	A	600:374	0	2.0	.25	108	120	12	671-8262	V.34 1250
SA-830373	B	600:412	0	1.75	.15	95	100	11A	671-8041	V.34 1250

**NOTES:**

1. Typical Insertion Loss (IL) IN dB @ Rated Unbalanced maDC, 0 dBm & 1kHz.
2. Typical frequency response (FR) from .3 to 3.5kHz.
3. CT indicates winding can be connected as a centertapped winding or as two isolated windings.
4. Suitable for modem speeds from V.22.

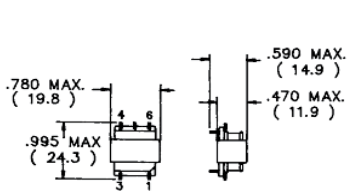


FIGURE A

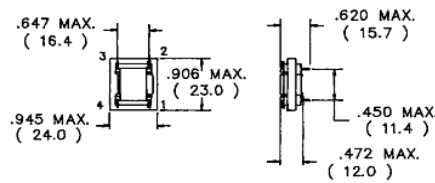


FIGURE B

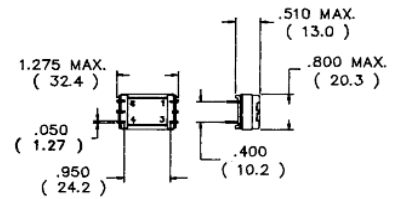


FIGURE C

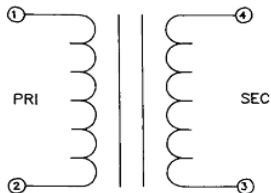


FIGURE 11A

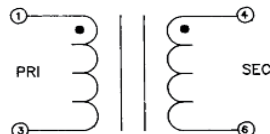


FIGURE 12

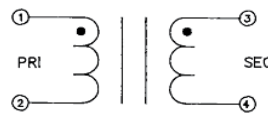


FIGURE 13

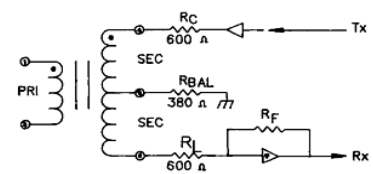


FIGURE 14

- TUV, BABT Pending
- UL Approved to UL1459 #E167631, UL 1950
- Small size.
- Designed for laptop and pocket modem applications
- Suitable for modem speeds from V.22 to V.34

Part No.	Fig. No.	Impedance PRI:SEC	maDC Unbal.	IL dB	FR +-dB	PRI DCR	SEC DCR	SCH.	CROSS REF.	Modem Speed	HIPOT VAC
SA-80323	D	600:600	0	1.25	.25	49	65	15	SPT-015		1500
*SA-801135	E	600:600	0	1.5	.50	52	59	15	671-8240	V.29	3750
SA-810108	E	600:600	0	1.25	.25	46.5	67.6	15	671-1934	V.29	1250
SA-810155	D	600:600	0	1.5	.50	55	60	15		V.32bis	1500
*SA-810435	D	600:600	0	1.5	.50	55	60	15		V.32bis	3750
SA-810659	E	600:442	0	2.0	.25	80	87	15	671-8264	V.32bis	3750
SA-810714	E	600:600	0	1.25	.25	46.5	67.6	15	671-8255	V.32	1250
*SA-820588	E	600:442	0	2.0	.50	86	91	15	671-8265	V.32bis	3750
*SA-820831	E	600:348	0	3.25	.50	152	151	15	671-8291	V.34	3750
*SA-830305	E	600:475	0	1.5	.50	.59	.80	15	671-8257	V.32	3750

\* Items are built to meet BABT creepage and clearance requirements.

**NOTES:**

1. Typical Insertion Loss (IL) IN dB @ Rated Unbalanced maDC, 0 dBm & 1kHz.
2. Typical Frequency Response (FR) from .3 to 3.5kHz.
3. Suitable for Modem speeds from V.29.

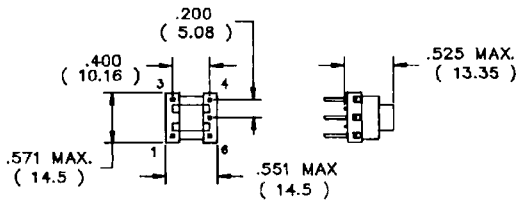


FIGURE D

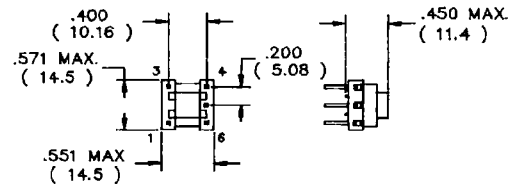


FIGURE E

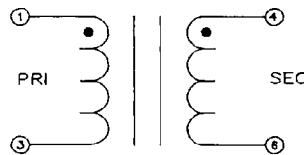


FIGURE 15

- UL Approved to UL1459 #E167631, UL 1950

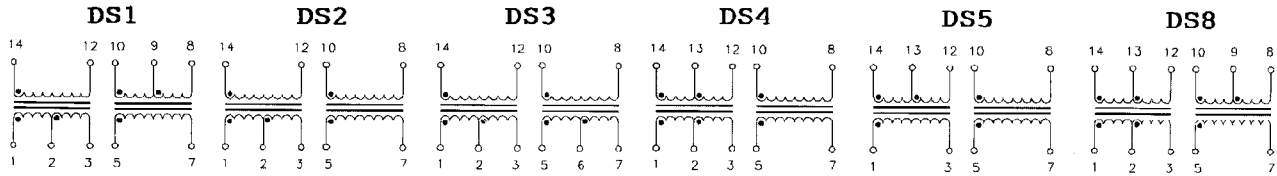
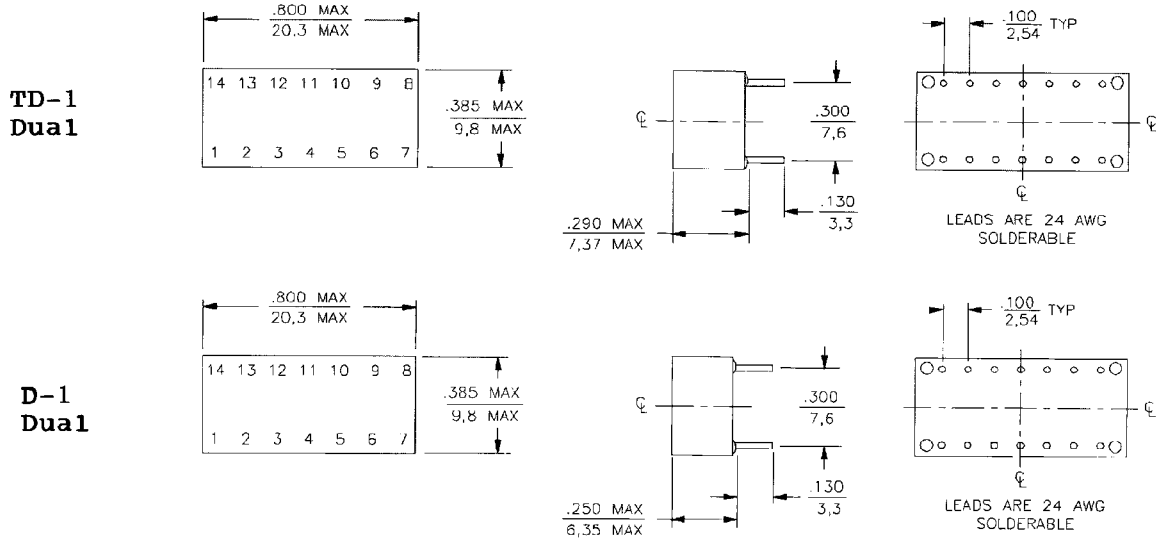


### Single and Dual Through-hole

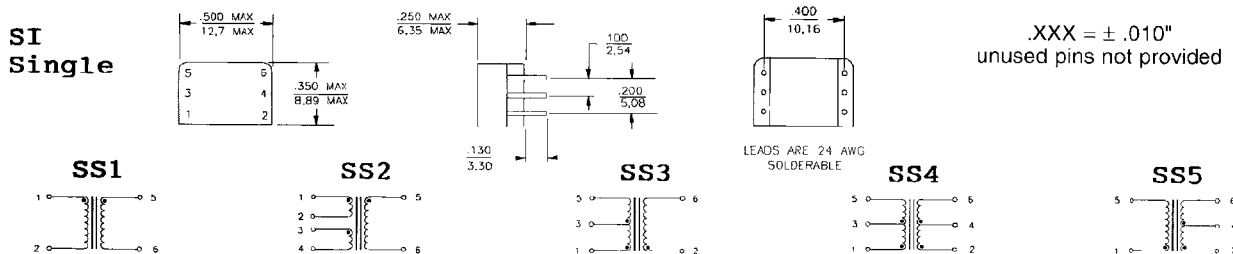
Part Number	Turns Ratio	OCL mH min.	Cw/w Pf max.	L μH max.	DCR pri Ω max.	DCR sec Ω max.	Package/ Schematic	Primary Pins
CT-64931	1:1:1(2CT)	1.20	25	.50	.70	.70	S1/SS2	
CT-64932	1:1:1	2.00	40	.50	.70	.70	S1/SS2	
CT-64933	1CT:3CT	1.20	30	.50	.70	1.60	S1/SS4	1-5
CT-64934	1:1	1.20	25	.50	.70	.70	S1/SS1	
CT-64935	1:1CT	.06	23	.75	.60	.60	S1/SS3	2-6
CT-64936	1CT:1	1.20	25	.80	.70	.70	S1/SS3	1-5
CT-64937	1:1.36	1.20	35	.80	.70	.70	S1/SS1	5-6
CT-64938	1:1.26CT	.06	23	.75	.60	.60	S1/SS3	2-6
CT-64940	1:1:1.58	.30	30	.60	.40 & .40	.60	S1/SS2	1-4(2,3 SH)
CT-64941	1:1:2	.80	30	.60	.40 & .40	.60	S1/SS2	1-4(2,3 SH)
CT-64942	1:1:2.62	.80	30	.40	.40 & .40	.60	S1/SS2	1-4(2,3 SH)
CT-64943	1CT:2CT	1.20	30	.55(4)	.70	1.10	S1/SS4	1-5
CT-64944	2CT:1CT	2.00	30	1.50	.70	.40	S1/SS4	1-5
CT-64945	2.53CT:1	2.00	20	1.50	1.0	.50	S1/SS3	1-5
CT-65351	1:2CT	1.20	40	.50	.70	1.10	S1/SS3	2-6
CT-65352	1:2CT	2.00	40	.50	.70	1.40	S1/SS3	2-6
CT-65363	1:4CT	.50	40	1.00	.50	1.50	S1/SS5	1-5
CT-65379	1:1.14CT	1.20	35	.80	.70	.80	S1/SS5	1-5
CT-65415	1CT:2CT	1.20	30	.55	.70	1.10	S1/SS4	1-5
CT-65388	1:1.15CT	1.50	35	0.60	0.70	0.90	S1/SS3	2-6
CT-65389	1:1:1.266	1.50	35	0.40	0.70	0.90	S1/SS3	2-6
CT-65558	1:2.3CT	1.20	35	0.80	0.70	1.20	S1/SS5	1-5
CT-65586	1:1.36CT	1.20	35	0.80	0.70	0.90	S1/SS5	1-5
CT-65755	1CT:1CT	1.20	25	0.80	0.80	0.80	S1/SS4	1-5
CT-65340	1:1.36	1.20	35	0.80	0.90	1.20	S1/SS1	5-6
CT-65770	1:1.15CT	1.50	40	0.80	0.90	1.00	S1/SS3	2-6
CT-65771	1CT:2CT	1.20	45	0.60	1.00	2.00	S1/SS4	2-6
CT-65778	1CT:1CT	1.20	50	1.10	1.00	1.00	S1/SS4	1-5
<b>Dual Packages</b>								
CT-64951	1:2CT; 1:2:CT	1.20	30	.50	.70 & .70	1.20 & 1.20	D1/DS1	14-12, 5-7
CT-64952	1:2CT; 1:1.36	1.20	35	.50; .80	.80 & .80	1.20 & 1.0	D1/DS2	14-12, 5-7
CT-64953	1:2CT; 2CT:1	2.00	45	.60; .80	.70 & .70	1.20 & 1.20	D1/DS3	14-12, 10-8
CT-64954	1CT:2CT; 1:1	1.20	30	.55(4); .50	.70 & .70	1.20 & .70	D1/DS4	1-3, 10-8
CT-64955	1.58:2CT; 1.58:1	.80	30	.50	1.60 & 1.60	.70 & .30	D1/DS5	1-3, 5-7
CT-64956	12:2CT; 2:1	.80	30	.60	.50 & .50	.50 & .20	D1/DS5	1-3, 5-7
CT-64957	2.62:2CT; 2.62:1	1.20	30	.80	.60 & .60	.50 & .30	D1/DS5	1-3, 5-7
CT-64958	1:1; 1CT:1	1.20	30	.50; .80	.70 & .70	.70 & .70	D1/DS5	5-7, 14-12
CT-65565	1:1.15CT; 1:2CT	1.50; 1.20	35; 40	.60; .50	.70 & .70	.70 & .70	TD1/DS1	14-12,5-7
CT-65566	1:1:1.266; 1:2CT	1.50; 1.20	35; 40	.50; .40	.70 & .70	.90 & 1.10	TD-1/DS1	14-12, 5-7
<b>Extended Temperature Range Dual Transformers</b>								
CT-65567	1:1.15CT & 1:2CT	1.50 & 1.20	40 & 60	.80 & .80	.90 & .90	1.10 & 1.70	TD-1/DS1	14-12,5-7
CT-65568	1:1:1.266 & 1:2CT	1.50 & 1.20	50 & 60	.80 & .80	.90 & .90	1.10 & 1.70	TD-1/DS1	14-12,5-7
CT-65774	1CT:2CT & 1:1.36CT	1.20 & 1.20	50 & 50	.96 & .80	1.00 & 1.00	1.70 & 1.20	TD-1/DS8	14-12,5-7

## Single / Dual

### Dual



### Single



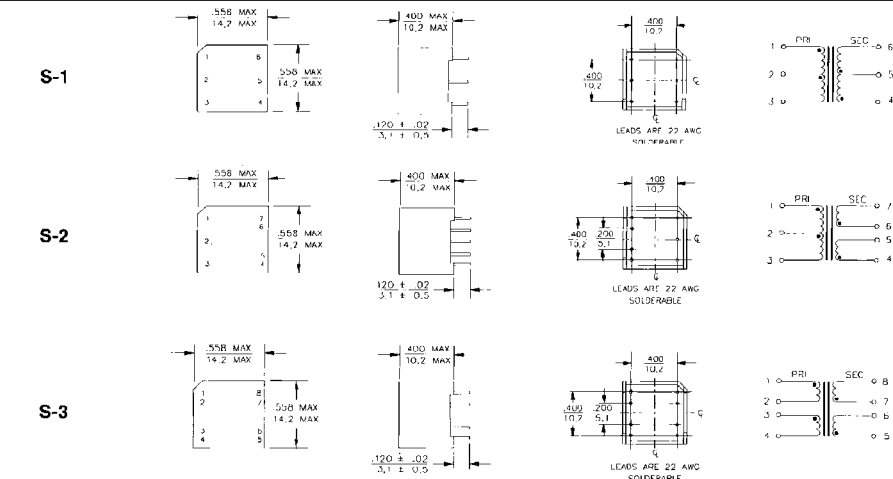


CET TECHNOLOGY, LLC

# Data / Telecom Transformer Series

- UL Approved to UL1459/UL1950
- Single transformers
- Excellent longitudinal balance
- 2KV RMS
- Through-hole style

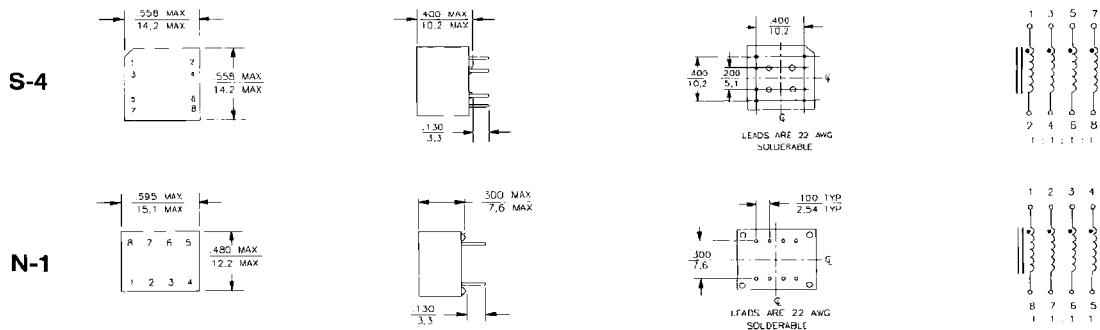
Part Number	Ratio (±2%)	OCL pri (mH min.)	L <sub>sec</sub> (μH max.)	Cw/w (pF max.)	CD pri (pF max.)	DCR pri (Ω ± 25%)	DCR sec (Ω ± 25%)	Isolation (μH Max)	Δ Idc. (Ohms Max)	Package/ Schematic
CT-64993	1:1	22	5	100	40	2.4	2.4	2000	1	S-1
CT-64994	1:1.8	22	15	100	140	2.5	2.2	2000	1	S-2
CT-64995	1:2	22	15	100	80	2.3	2.0	2000	1	S-1
CT-64996	1:2.5	22	30	100	150	2.5	2.8	2000	1	S-2
CT-64998	1:2.5	22	8-40	100	110	2.5	2.8	2000	1	S-3
CT-64999	1:2	22	11	100	180	2.4	2.4	2000	1	S-1



.XXX = ± .010"

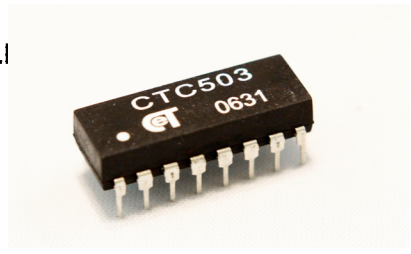
## COMMON MODE FILTER CHOKES

Part Number	OCL pri (mH min.)	L <sub>sec</sub> (μH max.)	Cw/w (pF max.)	DCR (Ω max)	Common Mode Attenuation in a 1000 Ohm System					Package/ Schematic
					100 KHz (db min.)	300 KHz (db min.)	1 MHz (db min.)	3 MHz (db min.)	10MHz (db min.)	
<b>Low Frequency</b>										
CT-65541	6	35	22	1.40	-25	-30	-30	-20	-9	S-4
CT-65542	1	10	10	0.70	-13	-17	-26	-25	-15	S-4
<b>High Frequency</b>										
		(μH min)			3 Mhz (dB min.)	10 MHz (dB min.)	30 MHz (dB min.)	100 MHz (dB min.)	200 MHz (dB min.)	
CT-65554	24	.20	15	0.30	-10	-16	-20	-22	-26	N-1
CT-65555	8	.20	10	0.25	-5	-12	-17	-18	-22	N-1



## SURFACE MOUNT & THROUGH-HOLE

- UL Approved to UL1459/UL1950 #167631
- Dual transformers
- Excellent longitudinal balance
- 2KV RMS
- Surface mount packages and through-hole styles



### SURFACE MOUNT

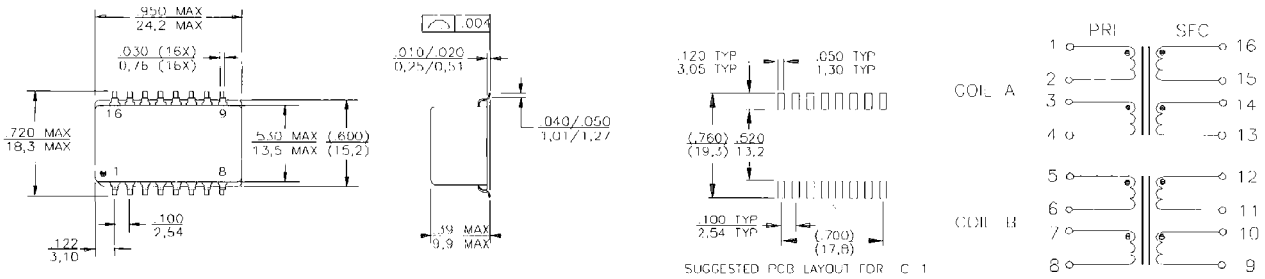
Part No.	Ratio (± 2%)		OCL pri (mH MIN)	L <sub>i</sub> sec (µH MAX)		Cw/w (pF MAX)	CD pri (pF MAX)		DCR pri (Ohms ± 25%)		DCR sec (Ohms ± 25%)		Package/ Schematic
	A	B		A & B	A		B	A	B	A	B	A	
COIL	A	B	A & B	A	B	A & B	A	B	A	B	A	B	
CT-65792	1:1	1:2	22	5	15	100	40	80	2.4	2.3	2.4	4.0	C-1
CT-65793	1:1	1:1	22	5	5	100	40	40	2.4	2.4	2.4	2.4	C-1
CT-65794	1:1.8	1:1.8	22	15	15	100	140	140	2.5	2.5	4.2	4.2	C-1
CT-65795	1:2	1:2	22	15	15	100	80	80	2.3	2.3	4.0	4.0	C-1
CT-65798	1:2.5	1:2.5	22	8-40	8-40	100	110	110	2.5	2.5	5.8	5.8	C-1
CT-65799	1:2	1:2	22	11	11	100	180	180	2.4	2.4	4.4	4.4	C-1

### THROUGH-HOLE

Part Number	Coil A				Coil B				Package/ Schematic
	Ratio	Equivalent Single	Primary Pins	Secondary Pins	Ratio	Equivalent Single	Primary Pins	Secondary Pins	
CT-65492	1:1	64993	1-4	16-13	1:2	64995	5-8	12-9	D-1
CT-65493	1:1	64993	1-4	16-13	1:1	64993	5-8	12-9	D-1
CT-65494	1:1.8	64994	1-4	16-13	1.8:1	64994	5-8	12-9	D-1
CT-65495	1:2	64995	1-4	16-13	1:2	64995	5-8	12-9	D-1
CT-65498	1:2.5	63998	1-4	16-13	1:2.5	64998	5-8	12-9	D-1
CT-65499	1:2	64999	1-4	16-13	1:2	64999	5-8	12-9	D-1

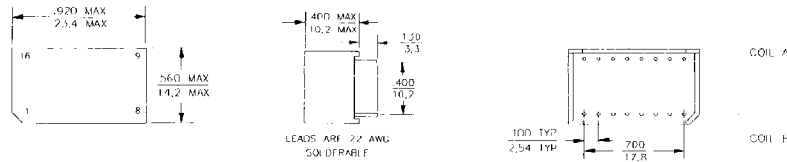
Refer to the equivalent single part number for electrical specifications.

### C-1



.XXX = ± .010"

### D-1

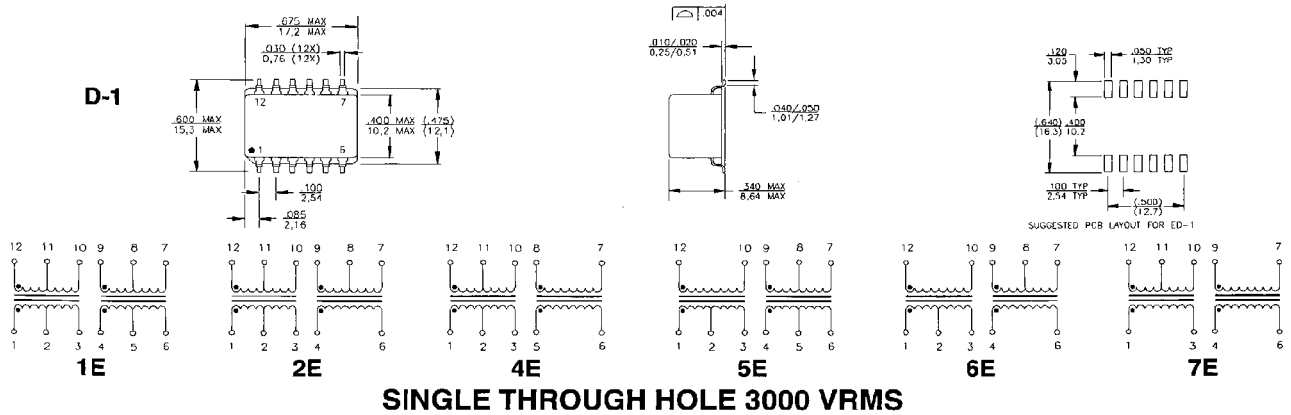


XXX = ± .010"

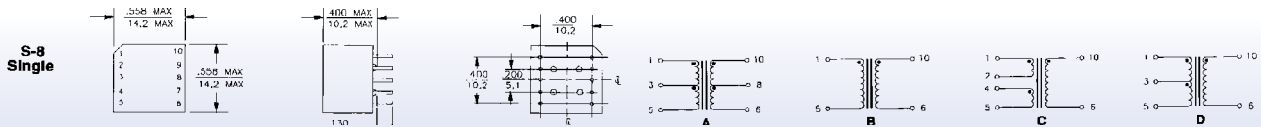


- UL Approved to UL1459/UL1950 #E167631
- Dual Surface Mount
- 1500 V RMS
- Contains both transmit and receive transformers

Part No.	Turns Ratio (pri:sec ± 5%)	OCL at 25° C (mh MIN)	Cw/w (pf MAX)	L <sub>L</sub> (μH MAX)	DCR pri (Ohms MAX)	DCR sec (Ohms MAX)	Package/ Schematic	Primary Pins
<b>EXTENDED TEMPERATURE RANGE MODELS</b>								
CT-65821	1CT:2CT & 1CT:2CT	1.20 & 1.20	50 & 50	0.80 & 0.80	1.00 & 1.00	1.70 & 1.70	D-1/1E	12-10, 4-6
CT-65822	1CT:2CT & 1:1.36CT	1.60 & 1.60	60 & 50	1.00 & 0.80	1.50 & 1.50	2.00 & 1.70	D-1/2E	12-10, 4-6
CT-65825	1:1.15CT & 1CT:2CT	1.50 & 1.20	60 & 50	0.80 & 0.80	1.70 & 1.00	1.00 & 1.10	D-1/5E	12-10, 4-6
CT-65826	1:1.256 & 1:2CT	1.50 & 1.20	50 & 60	0.80 & 0.80	1.00 & 1.00	1.10 & 1.70	D-1/6E	12-10, 4-6
CT-65827	2:2CT & 2:1	1.60 & 1.60	55 & 40	1.30 & 1.30	1.10 & 1.10	1.70 & 0.70	D-1/7E	1-3, 4-6
CT-65828	2:2CT & 2:1	1.20 & 1.20	50 & 50	0.80 & 0.80	1.00 & 1.00	1.00 & 1.00	D-1/1E	12-10, 4-6
<b>STANDARD TEMPERATURE RANGE MODELS</b>								
CT-65761	1CT:2CT & 1CT:2CT	1.20 & 1.20	31 & 31	0.60 & 0.60	0.70 & 0.70	1.20 & 1.20	D-1/1E	12-10, 4-6
CT-65762	1CT:2CT & 1:1.36CT	1.20 & 1.20	32 & 37	0.55 & 0.80	0.70 & 0.70	1.10 & 0.90	D-1/2E	12-10, 4-6
CT-65763	1:2CT & 1:1.14CT	1.20 & 1.20	40 & 35	0.55 & 0.80	0.70 & 0.70	1.10 & 0.90	D-1/6E	12-10, 4-6
CT-65764	1CT:2CT & 1:1	1.20 & 1.20	30 & 30	0.55 & 0.80	0.70 & 0.70	1.10 & 0.70	D-1/4E	1-3, 5-6
CT-65765	1CT:1.15CT & 1CT:2CT	1.50 & 1.20	35 & 35	0.60 & 0.60	0.70 & 0.70	0.90 & 1.20	D-1/5E	12-10, 4-6
CT-65766	1:1.1.26CT & 1:2CT	1.50 & 1.20	40 & 40	0.40 & 0.50	0.70 & 0.70	0.90 & 1.20	D-1/6E	12-10, 4-6
CT-65769	1CT:2CT & 1:1.08CT	1.20 & 1.20	40 & 30	0.60 & 0.60	0.70 & 0.70	1.10 & 0.70	D-1/2E	12-10, 4-6



Part No.	Turns Ratio (pri:sec ± 5%)	OCL at 25° C (mh MIN)	Cw/w (pf MAX)	L <sub>L</sub> (μH MAX)	DCR pri (Ohms MAX)	DCR sec (Ohms MAX)	Package/ Schematic	Primary Pins
<b>3KV ISOLATION SINGLE TRANSFORMERS</b>								
CT-65880	1:1:1.58	0.80	25	0.80	0.40	0.30	S-8/C	1-5(2,4sh.)
CT-65881	1:1:2	0.80	25	0.50	0.40	0.40	S-8/C	1-5,(2,4sh.)
CT-65882	1:1.37CT	1.20	35	0.60	0.30	0.40	S-8/D	10-6
CT-65883	1CT:2CT	1.20	30	0.55	0.40	0.60	S-8/A	1-5
CT-65884	1:1	1.20	30	0.50	0.40	0.40	S-8/B	1-5
CT-65885	1CT:2CT	1.20	35	1.00	0.40	0.60	S-8/A	1-5
CT-65889	1:1:1.266	1.50	35	0.50	0.40	0.40	S-8/D	10-6





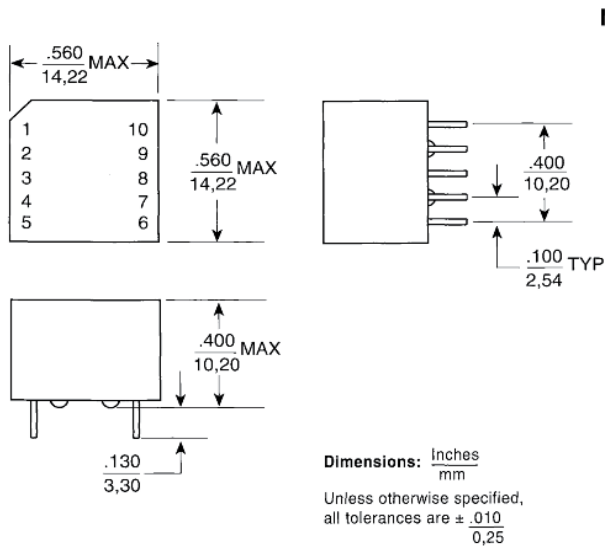
- UL Approved to UL 1459/UL 1950
- Reinforced insulation per EN41003/EN60950
- Matched to leading transceiver ICs
- Designed to meet ITU-T G.703



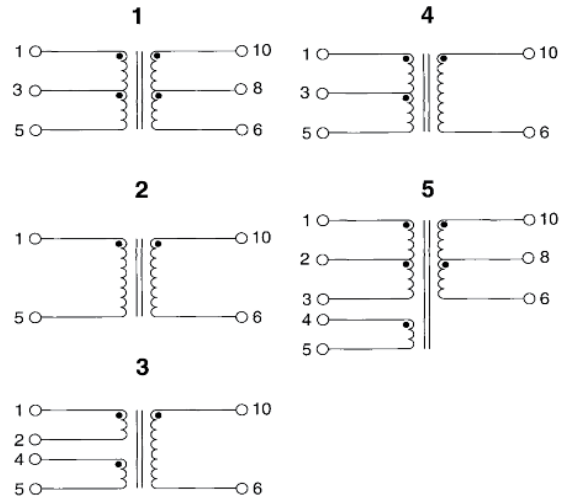
### ELECTRICAL SPECIFICATIONS AT 25° C

Part No.	Turns Ratio (Pri:Sec ±5%)	OCL (mH Min)	C <sub>ww</sub> (μH Max)	L <sub>i</sub> (pF Max)	DCR Pri (Ω Max)	DCR Sec (Ω Max)	Safety Agency Recognition	Package/ Schematic	Primary Pins
CT-65830	1.27CS:1	.800	15	0.70	0.50	0.35	C,T,U,B	IS/3	1-5
CT-65831	1CS:1	.800	15	0.70	0.50	0.45	C,T,U,B	IS/3	1-5
CT-65832	1:1.36CT	.1.20	35	0.60	0.70	0.90	C,T,U,B	IS/4	10-6
CT-65833	1CT: 2CT	1.20	20	0.30-0.55	0.50	0.90	C,T,U,B	IS/1	1-5
CT-65834	1:1	1.20	20	0.50	0.50	0.90	C,T,U,B	IS/2	1-5
CT-65835	1CT:2CT	1.20	15	0.80	0.70	1.10	C,T,U,B	IS/1	1-5
CT-65836	1CT:3CT:1	.600	30	0.80	0.70	1.70	C,T,U,B	IS/5	1-3
CT-65837	1:1.08/1/36	.1.50	20	0.60	0.70	0.90	C,T,U,B	IS/4	10-6
CT-65838	1:1.14CT	1.50	30	1.00	0.70	0.90	C,T,U,B	IS/4	10-6
CT-65839	1:1.26	1.50	35	0.60	0.70	1.10	C,T,U,B	IS/4	10-6
CT-68646	1:1.58/2	1.50	20	0.70	0.70	1.20	C,T,U,B	IS/4	10-6
CT-68788	1CT:1.41CT	1.20	20	0.80	0.60	0.80	C,T,U,B	IS/1	10-6

### Mechanical



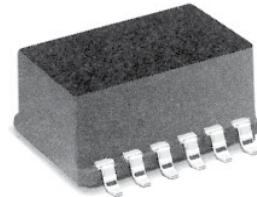
### Schematics





## T1/CEPT/ISDN-PRI TRANSFORMERS

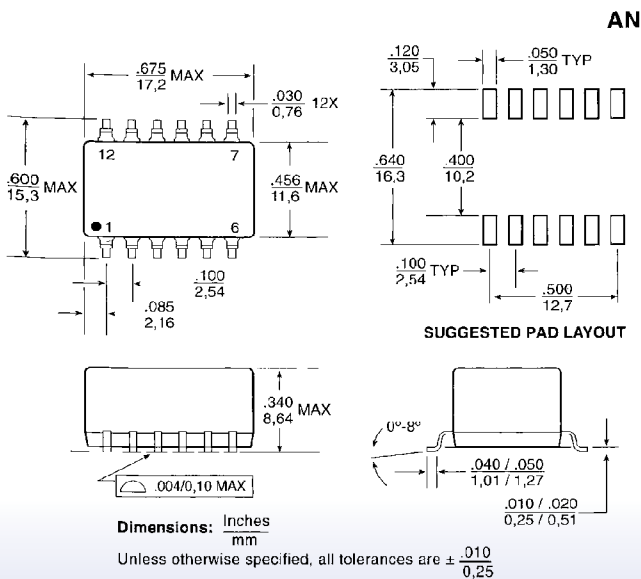
- UL Approved to UL 1459/UL 1950
- Dual surface mount package contains both transmit and receive transformers
- Models matched to leading transceiver ICs
- Isolation voltage: 1500 Vrms



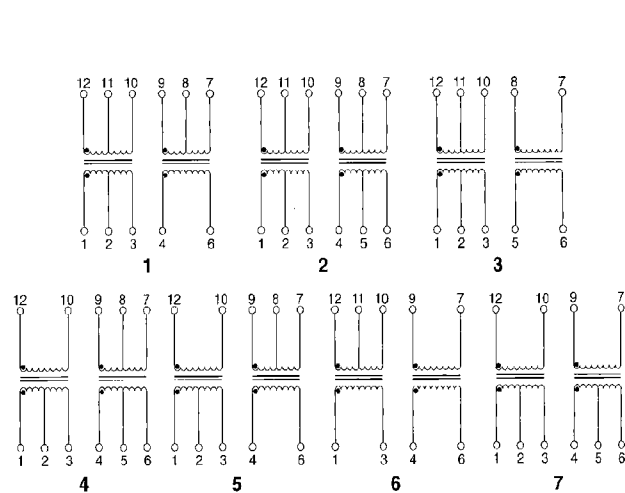
### ELECTRICAL SPECIFICATIONS AT 25° C

Pulse Part No.	Turns Ratio (Pri:Sec ±2%)	OCL @ 25° C (mH Min)	L <sub>L</sub> (μH Max)	C <sub>sw</sub> (pF Max)	DCR Pri (Ω Max)	DCR Sec (Ω Max)	Package/ Schematic	Primary Pins
<i>Extended Temperature Range Models</i> — Operating Temperature -40° to +85°C								
CT-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
CT-68822	1CT:2CT & 1:1.36CT	1.60 & 1.60	1.00 & .080	60 & 55	1.70 & 1.70	2.00 & 1.70	AN/1	12-10, 4-6
CT-68825	1CT:1.15CT & 1CT:2CT	1.60 & 1.60	0.80 & 0.80	60 & 50	1.00 & 1.00	1.00 & 2.00	AN/4	12-10, 4-6
CT-68826	1CT:1/1.26CT & 1CT:2CT	1.60 & 1.20	0.80 & 0.80	50 & 60	1.00 & 1.00	1.10 & 1.70	AN/5	12-10, 4-6
CT-68827	1CT:2CT & 2CT:1CT	1.20 & 1.60	1.30 & 1.30	55 & 40	1.10 & 1.10	1.10 & 0.70	AN/6	1-3, 4-6
CT-68828	1CT:1CT & 1CT:1CT	1.60 & 1.20	0.80 & 0.80	50 & 50	1.00 & 1.00	1.00 & 1.00	AN/2	1-3, 4-6
CT-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
CT-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
CT-68882	1CT:1.15CT & 1CT:1CT	1.60 & 1.620	0.80 & 0.80	60 & 60	1.20 & 1.20	1.40 & 1.20	AN/2	12-10, 4-6
CT-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
CT-68887	1CT:1.41CT & 1CT: 1.41CT	1.20 & 1.20	0.80 & 0.80	50 & 50	0.90 & 0.90	1.20 & 1.20	AN/2	12-10, 9-7
CT-68881	1CT:2.3CT & 1CT: 2CT	1.20 & 1.0	0.80 & 0.80	60 & 50	1.20 & 1.20	2.10 & 2.10	AN/2	10-12, 4-6
<i>Standard Temperature Range Models</i> — Operating Temperature 0° to +70°C								
CT-68861	1CT:2CT & 1CT:2CT	1.20 & 1.20	0.60 & 0.80	35 & 35	0.70 & 0.70	1.20 & 1.20	AN/2	12-10, 4-6
CT-68862	1CT:2CT & 1CT: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
CT-68863	1CT:2CT & 1CT: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
CT-68864	1CT:2CT & 1CT:1CT	1.20 & 1.200	0.30-0.55 & 0.80	30 & 30	0.70 & 0.70	1.20 & 0.70	AN/3	1-3, 5-6
CT-68865	1CT:1.15CT & 1CT:2CT	1.50 & 1.20	0.80 & 0.80	35 & 35	0.70 & 0.70	0.90 & 1.20	AN/4	12-10, 4-6
CT-68866	1CT:1/1.26CT & 1CT:2CT	1.50 & 1.20	0.40 & 0.80	40 & 40	0.70 & 0.70	0.90 & 1.20	AN/5	12-10, 4-6
CT-68869	1CT:2CT & 1CT:1.08CT	1.20 & 1.20	0.60 & 0.80	40 & 30	0.70 & 0.70	1.10 & 0.90	AN/1	12-10, 4-6
CT-68836	1CT:1/1.26CT & 1CT:1/1.26CT	1.50 & 1.50	0.40 & 0.80	45 & 45	0.80 & 0.80	1.00 & 1.00	AN/7	12-10, 9-7

### Mechanical

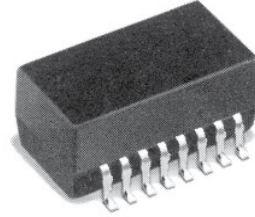


### Schematics



## CET'sT1/CEPT/ISDN-PRI TRANSFORMERS

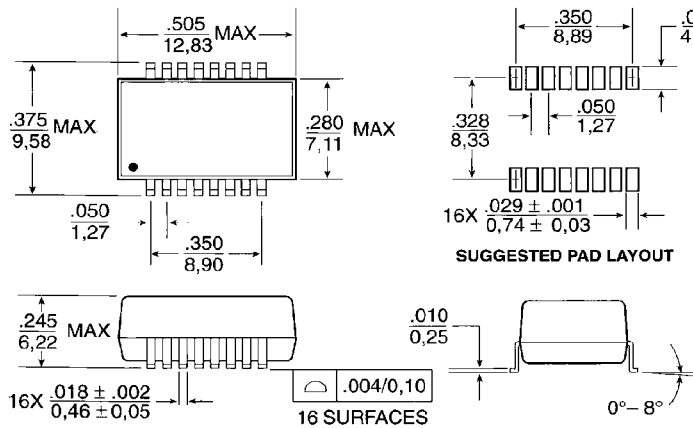
- UL Approved to UL 1459/UL 1950
- Dual surface mount package contains both transmit and receive transformers
- Models matched to leading transceiver ICs
- Isolation voltage: 1500 Vrms



### ELECTRICAL SPECIFICATIONS AT 25° C

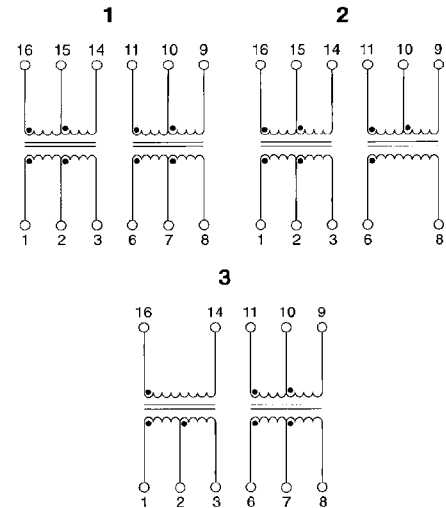
Part Number	Turns Ratio (Pri:Sec ±2%)	OCL (mH Min)	L <sub>i</sub> (μH Max)	C <sub>sw</sub> (pF Max)	DCR Pri (Ω Max)	DCR Sec (Ω Max)	Package/Schematic	Primary Pins
CT-65861	1CT:2CT & 1CT:2CT	1.20 & 1.20	0.60 & 0.60	30 & 30	0.70 & 0.70	1.40 & 1.40	BH/1	16-14, 6-8
CT-65862	1CT:2CT & 1:1.36CT	120 & 1.20	0.60 & .060	30 & 30	0.70 & 0.70	1.00 & 0.80	BH/2	16-14, 6-8
CT-65865	1CT:1.15CT & 1CT:2CT	1.60 & 1.60	0.60 & 0.60	30 & 30	0.70 & 0.70	0.70 & 1.003	BH/3	16-14, 6-8
CT-65866	1CT:1/1.26CT & 1CT:2CT	1.60 & 1.20	0.60 & 0.60	30 & 30	0.70 & 0.70	0.80 & 1.30	BH/3	16-14, 6-8
CT-65870	1CT:1.15CT & 1CT:1.15CT	1.20 & 1.60	0.60 & 0.60	35 & 30	0.70 & 0.70	0.75 & 0.75	BH/1	1-3, 6-8
CT-68678	1CT:1CT & 1CT:2CT	1.60 & 1.20	0.60 & 0.60	30 & 30	0.70 & 0.70	0.70 & 1.00	BH/1	16-14, 6-8
CT-68785	1CT:1.41CT & 1CT:1.41CT	1.00 & 1.00	0.60 & 0.60	30 & 30	0.70 & 0.70	0.90 & 0.90	BH/1	16-14, 119

### Mechanical



### Schematics

BH



## TRANSFORMER SELECTION

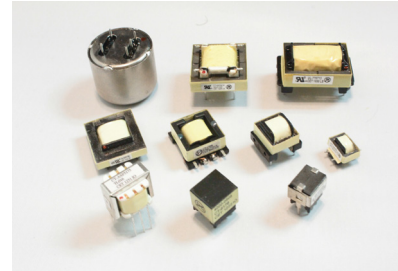
Company	Transceiver Chip	Comments	Dual Surface Mount		Single Through Hole			
			Trans & Rec	Trans & Rec	Std. Temp.		Ext. Temp.	
					Transmit	Receive	Transmit	Receive
AT&T	T7288	CEPT	CT-65762	CT-65822	CT-65586	CT-65415	CT-65340	CT-65771
	T7289	DS1	CT-65763	CT-65825	CT-65379	CT-65351	CT-66770	CT-65771
	T7290	T1 & CEPT	CT-65762	CT-65822	CT-65586	CT-65415	CT-65430	CT-65771
	T7290	DS1	CT-65769			CT-65415		CT-65771
Brooktree	R8069, R8069A, R8069B		CT-65764		CT-64943	CT-64934		
Crystal	61534, 61544, 61574, 6158, 61535T1 & PCM-30		CT-65761	CT-65821	CT-65351	CT-65351	CT-65771	CT-65771
	61535A, 61547A, 61575, 6158A	T1	CT-65765	CT-65825	CT-65388	CT-65351	CT-65770	CT-65771
	61536A, 61574A, 61575, 6158A	PCM-30, 75Ω	CT-65786	CT-65826	CT-65389	CT-65351	CT-65778	CT-65771
	61535A, 61574A, 61575, 6158A	PCM-30, 120 Ω	CT-65768	CT-65826	CT-65389	CT-65351		CT-65771
	6152, 6154		CT-65762	CT-65822	CT-65586	CT-65351	CT-65340	CT-65771
Dallas	DS2185, DS2186, DS2187		CT-65762	CT-65822	CT-65586	CT-65351	CT-65340	CT-65771
Exar	T5650, T5620, T5675, T5681, T5683		CT-65761	CT-65821	CT-65415	CT-65415	CT-65771	CT-65771
	56L22, 56LB5, C240, C260, C262, C277		CT-65761	CT-65821	CT-65415	CT-65415	CT-65771	CT-65771
	T5684		CT-65761	CT-65821	CT-65415	CT-65415	CT-65771	CT-65771
Level-One	LXT 300, LXT 301, LXT 305		CT-65761	CT-65821	CT-65351	CT-65351	CT-65771	CT-65771
	LXT 300, LXT 301, LXT 305	Monitor			CT-65351	CT-65363		
	LXT 304A, LXT 305A	T1	CT-65765	CT-65825	CT-65388	CT-65351	CT-65770	CT-65771
	LXT 304A, LXT 305A	PCM-30, 75Ω	CT-65766	CT-65826	CT-65389	CT-65351	CT-65778	CT-65771
	LXT 304A, LXT 305A	PCM-30, 120Ω	CT-65766	CT-65826	CT-65389	CT-65351	CT-65778	CT-65771
	LXT 304A, LXT 305A	DSX			CT-65558			
	LXT 310, LXT 311		CT-65761	CT-65821	CT-85351	CT-64936	CT-65771	CT-65778
	LXT 312, LXT 313, LXT 315					CT-65755		CT-65778
	LXT 318, LXT 319		CT-65766	CT-65826	CT-65389	CT-65351	CT-65778	CT-65771
	LXT 324, LST 325	DSX1				CT-65351		
LXT 324, LST 325	Monitor				CT-65363			
PMC-Sierra	PM4341		CT-65762	CT-65882	CT-64937	CT-65351	CT-65340	CT-65771
PMI	LIU-01		CT-65761	CT-65821	CT-65415	CT-65351	CT-65771	CT-65771
	RPT 86, RPT 87				CT-64933	CT-65755		
	RPT 82, RPT 83, RPT 85		CT-65761	CT-65821	CT-65352	CT-65362		
Siemens	PEB 2235, PEB 2235A1, PEB 2235B1	T1			CT-64942	CT-64942		
	PEB 2235, PEB 2235A1, PEB 2235B1	CEPT 75Ω			CT-64940	CT-64940		
	PEB 2235, PEB 2235A1, PEB 2235B1	CEPT 120Ω		CT-65827	CT-64941	CT-64041		

## TRANSFORMER SELECTION

Dual Through Hole		Single Through Hole, 3 KVrms	
Std. Temp.	Ext. Temp.	Standard Temperature	
Trans. & Rec.	Trans. & Rec.	Transmit	Receive
CT-64952	CT-65774	CT-65882	CT-65885
CT-65565	CT-65567		CT-65882
CT-64952	CT-65774	CT-65882	CT-65882
			CT-65882
CT-64954		CT-65883	CT-65884
CT-64951		CT-65885	CT-65885
CT-65565	CT-65567		CT-65885
CT-65566	CT-65568	CT-65889	CT-65885
CT-65566	CT-65568	CT-65889	CT-65885
CT-64952	CT-65774	CT-65882	CT-65885
CT-64951		CT-65885	CT-65885
CT-64951		CT-65885	CT-65885
CT-64951		CT-65885	CT-65885
CT-65565	CT-65567		CT-65885
CT-65566	CT-65568	CT-65889	CT-65885
CT-65566	CT-65568	CT-65889	CT-65885
CT-64954		CT-65885	CT-65885
CT-65923			
CT-65566	CT-65568	CT-65889	CT-65885
CT-64952	CT-65774	CT-65882	CT-65885
CT-64951		CT-65885	CT-65885
CT-64953		CT-65885	CT-65885
CT-64957			
CT-64955		CT-65880	CT-65885
CT-64956		CT-65881	CT-65885

## ISDN TRANSFORMERS

- UL APPROVED TO UL1459/1950 FILE #E167631
- CET'S ISDN TRANSFORMERS PROVIDE ISOLATION FOR THE LINE CARD AND TERMINAL IN CONJUNCTION WITH BOTH "S/T" AND "U" INTERFACES
- DESIGNED TO MEET THE CCITT 1.430 PULSE WAVE FORM TEMPLATE REQUIREMENTS
- ISOLATION VOLTAGE LEVELS AVAILABLE FOR US AND INTERNATIONAL APPLICATIONS
- AVAILABLE IN BOTH THROUGH HOLE AND SURFACE MOUNT PACKAGES
- STANDARD AND CUSTOM CONFIGURATIONS AVAILABLE



### STANDARD ELECTRICAL SPECIFICATIONS

MODEL	TURNS RATIO	PRIMARY INDUCTANCE MIN. (Mh)	PRIMARY DCR MAX. (Ohms)	SECONDARY DCR MAX. (Ohms)	LEAKAGE INDUCTANCE MAX. (µh)	PRIMARY/SECONDARY HIPOT (V RMS)	STYLE NUMBER	SCHEMATIC NUMBER
CT-AXF5041	1 CT:2CT	20	1.2	11.0	30	1500	1	1
CT-AXF5042	1 CT:2CT	20	1.2	11.0	30	1500	2	2
CT-AXF5043	1 CT:2CT	20	3.0	4.5	15	1500	4	4
CT-AXF5044	1 CT:2.5CT	22	2.8	6.5	20	1500	1	1
CT-AXF5039	1 CT:1CT	22	2.8	2.8	10	1500	5	6
CT-AXF5045	1 CT:1.8CT	22	2.8	5.5	20	1500	1	1
CT-AXF5046	1 CT:2CT	22	8.0	15.0	30	1500	7	5
CT-AXF5047	1 CT:2CT	22	2.8	5.5	10	2000	9	4
CT-AXF5040	2.5 :1:1	72	8.5	1.0	160	1100	3	3
CT-AXF5048	1 :1:1CT	25	5.5	3.5	20	1100	6	7
CT-AXF5049	4:1:1	30	2.3	1.0	200	1100	8	8
CT-AXF5050	1:1.32	7	0.9	1.5	17	1100	3	5
CT-AXF5051	1 :1:1CT	25	4.3	3.8	20	2000	10	9

### Transformer Cross Reference for Transceiver Chips

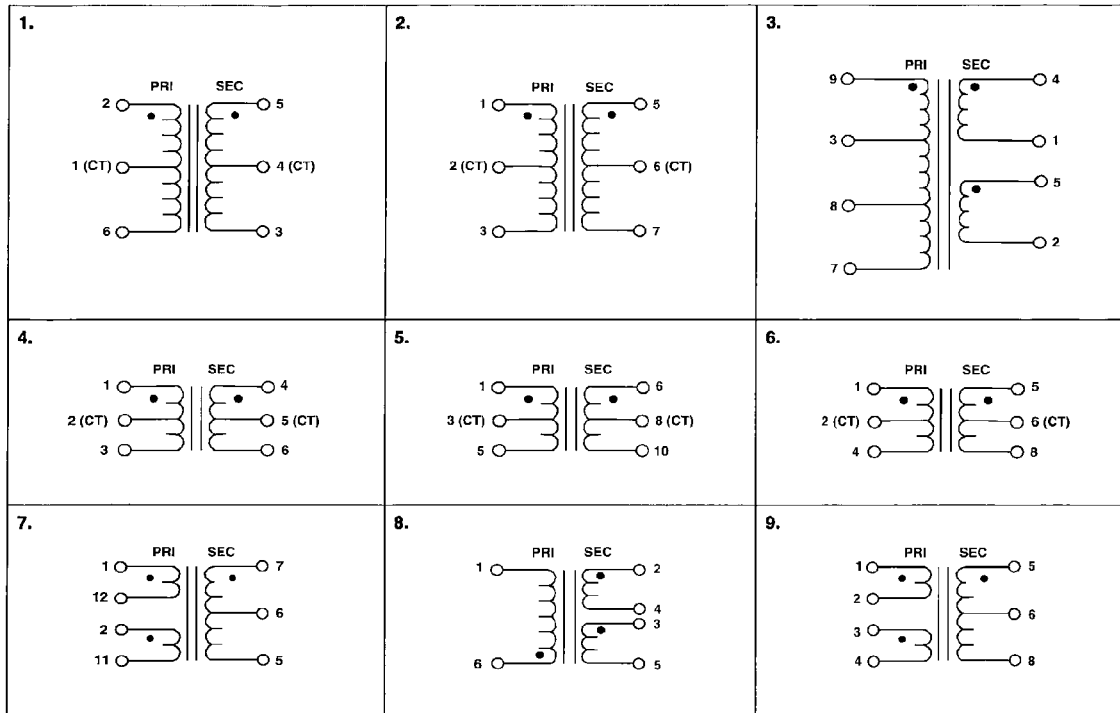
MODEL	TURNS RATIO	IC MANUFACTURER	IC PART NUMBER
CT-AXF5041	1CT:2CT	SIEMENS	PEB2080/2085
CT-AXF5042	1CT:2CT	SIEMENS	PEB2080/2085
CT-AXF5043	1CT:2CT	AMD MITEL NATIONAL	79C30A MT8930 TP3420
CT-AXF5044	1CT:2.5 CT	INTEL AT&T	29C53 T7250/T7252
CT-AXF5039	1CT:1CT	MOTOROLA	MC145474 MC145475
CT-AXF5045	1CT:1.8CT	INTEL	29C53
CT-AXF5046 CT-AXF5047	1CT:2CT 1CT:2CT	SIEMENS AMD MITEL NATIONAL	PEB2080/2085 79C30A MT8930 TP3420
CT-AXF5040	2.5:1:1	AT&T	T7262/T7263
CT-AXF5048	1:1:1 CT	MOTOROLA	MC145472
CT-AXF5049	4:1:1	MITEL	MT8972
CT-AXF5050	1:1.32	SIEMENS	PEB2091
CT-AXF5051	1:1:1 CT**	MOTOROLA	MC 145472

\* Hipot voltage will meet International Safety Standards.

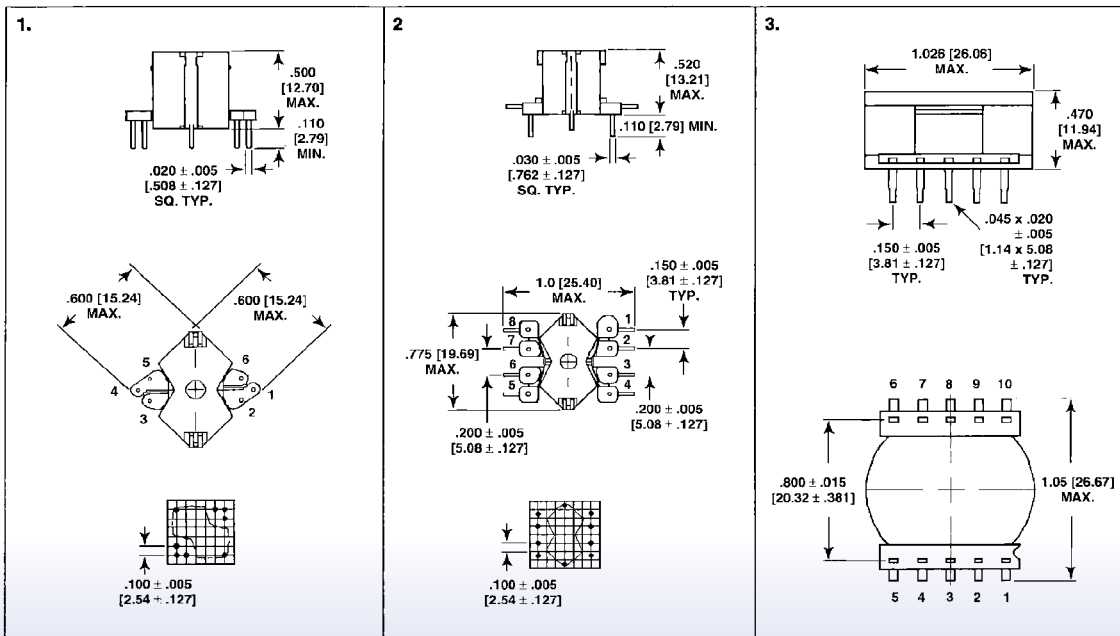
**Cross Reference: Dale PT Series**

## MODEL CT-AXF SERIES

### SCHEMATICS



### DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]



## MODEL CT-AXF SERIES

### SCHEMATICS

