



TITLE

OCTAL T1/E1 TRANSFORMER

PN

37544

REV

F

AGENCY APPROVAL: NA

SH

2 OF 12

SPECIFICATIONS

EXTENDED TEMP RANGE (-40C TO +85C)

1. TURNS RATIO:

TRANSMIT (IN+ TO IN-) : (OUT+ TO OUT-) 1 : 2 CT±2%
 RECEIVE (IN+ TO IN-) : (OUT+ TO OUT-) 1CT : 2 ±2%

2. INDUCTANCE:

TRANSMIT (IN+ TO IN-) 1.2 mH MIN. @ 0.01V. 100KHz . 25C
 RECEIVE (IN+ TO IN-) 1.2 mH MIN. @ 0.01V. 100KHz . 25C
 TRANSMIT (IN+ TO IN-) 600 uH MIN. @ 0.01V. 100KHz . -40C TO +85C
 RECEIVE (IN+ TO IN-) 600 uH MIN. @ 0.01V. 100KHz . -40C TO +85C

3. LEAKAGE INDUCTANCE:

TRANSMIT IN+ TO IN- (WITH OUT+ AND OUT- SHORT) 0.5uH MAX. @ 1MHz
 RECEIVE IN+ TO IN- (WITH OUT+ AND OUT- SHORT) 0.5uH MAX. @ 1MHz

4. INTERWINDING CAPACITANCE:

(IN+, IN-) TO (OUT+, OUT-) 35pf MAX @ 1MHz

5. D.C. RESISTANCE:

(IN+ TO IN-) 0 .6 ohms Max.
 (OUT+ TO OUT-) 1.2 ohms Max.

6. DIELECTRICAL VOLTAGE WITHSTAND:

(IN+, IN-) TO (OUT+, OUT-) 1500VAC for 60 seconds
 (1800 VAC for 1 second production test)

7. RETURN LOSS: (WINDING WITH TURNS RATIO 2 IS 100 OHM REF.)

(25 OHMS CONNECTED TO THE LOW TURNS SIDE OF THE 2 RATIO TRANSFORMER)
 51KHz TO 102KHz 12dB MIN
 102KHz TO 2.048MHz 18dB MIN
 2.048MHz TO 3.072 MHz 14dB MIN

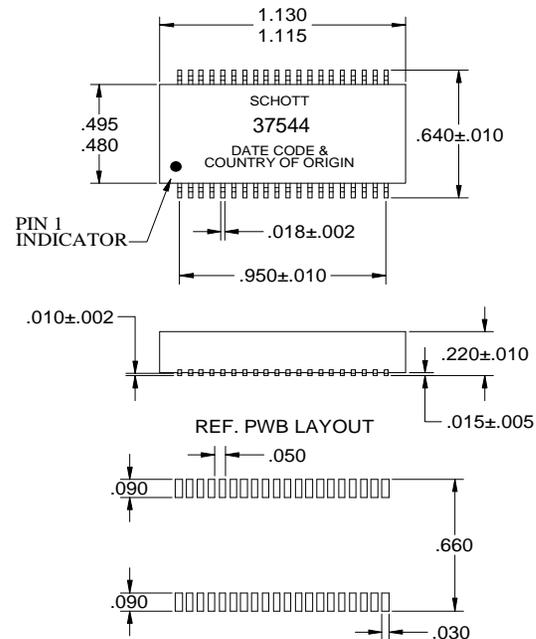
8. CROSS TALK:

65dB OR BETTER

9. COMMON MODE REJECTION:

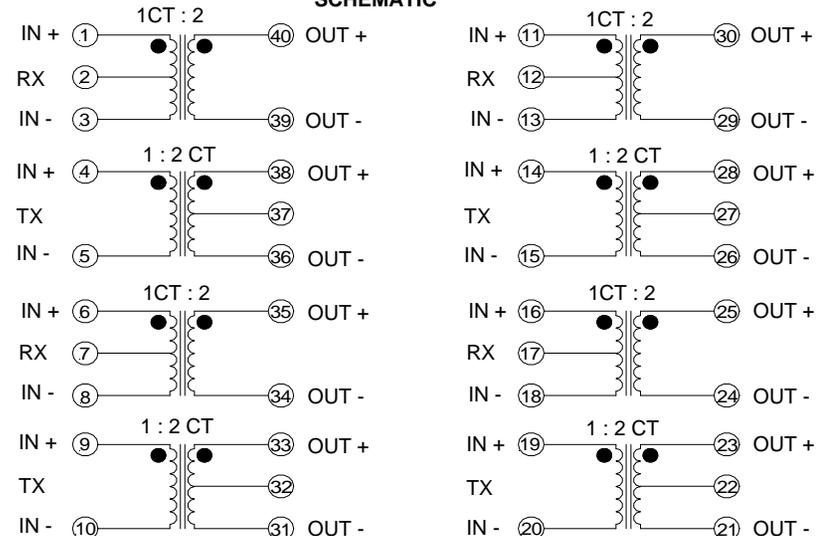
50dB OR BETTER @ 1MHz

DIMENSIONAL OUTLINE



COPLANARITY OF PINS IS LESS THEN OR EQUAL TO 0.004 INCHES

SCHEMATIC



TOLERANCES UNLESS OTHERWISE SPECIFIED

INCHES / DECIMAL
 MILLIMETERS (mm)

.XX = ± .01
 .XXX = ± .005
 .XX = ± 0.20

ANGLES ± 1°