



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 $\pm$ 2%

RECEIVE (IN+ TO IN-) : (OUT+ TO OUT-)

1CT : 2 $\pm$ 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-

0.5uH MAX. @ 1MHz

(WITH OUT+ AND OUT- SHORT)

RECEIVE IN+ TO IN-

0.5uH MAX. @ 1MHz

(WITH OUT+ AND OUT- SHORT)

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

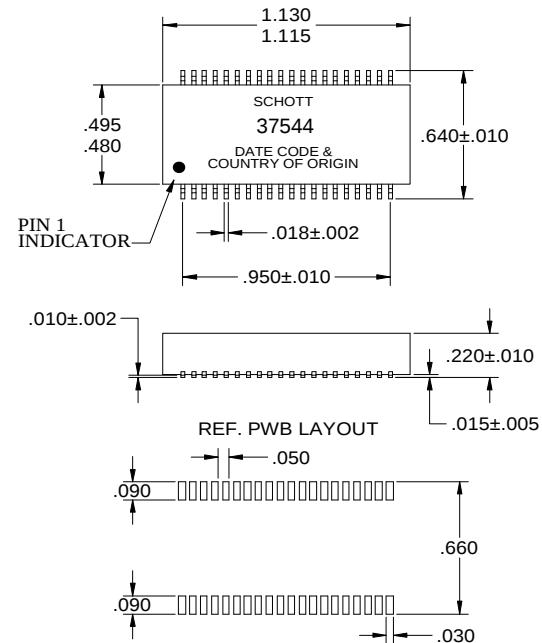
8. CROSS TALK:

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

