OCTAL T1/E1 TRANSFORMER

PN **37543**

REV **F**

AGENCY APPROVAL: NA

SH

OF 1

SPECIFICATIONS

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

1. TURNS RATIO:

RECEIVE (IN+ TO IN-): (OUT+ TO OUT-) 1: 2CT ±2% TRANSMIT(1-2):(39-40):(38-40):(6-7) 1: 1:1.26CT ±2% (34-35):(33-35):(11-12):(29-30)

(28-30):(16-17):(24-25):(23-25)

TITLE

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 CAPACITIANCE:

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

5. D.C. RESISTANCE:

TRANSMIT (IN+ TO IN-) RECEIVE (IN+ TO IN-)

TRANSMIT (OUT + TO OUT -)

RECEIVE (OUT + TO OUT -)

1.2 ohms Max.

6. DIELECTRICAL VOLTAGE WITHSTAND:

(IN+, IN-) TO (OUT+:OUT-) 1500VAC for 60 seconds

(1800VAC for 1 second production test)

7. RETURN LOSS: WINDING WITH A TURNS RATIO1,1.26 AND 2 IS 100 OHM REF.) (25 OHMS CONNECTED TO THE LOW TURNS SIDE OF 2 RATIO TRANSFORMER) (100 OHMS CONNECTED TO THE LOW TURNS SIDE OF 1 RATIO TRANSFORMER) (63 OHMS CONNECTED TO THE LOW TURNS SIDE OF 1.26 RATIO TRANSFORMER)

 51KHz TO 102KHz
 12dB MIN

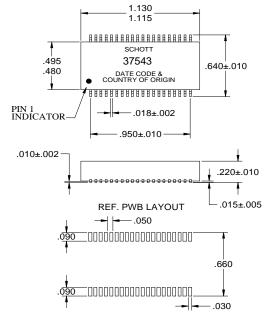
 102KHz TO 2.048MHz
 18dB MIN

 2.048MHz TO 3.072 MHz
 14dB MIN

8. CROSS TALK: 65dB OR BETTER

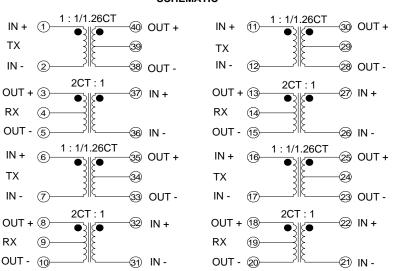
9. COMMON MODE REJECTION: 50dB OR BETTER @1MHz

DIMENSIONAL OUTLINE



COPLANARITY OF PINS IS LESS THEN OR EQUAL TO 0.004 INCHES

SCHEMATIC



TOLERANCES UNLESS	INCHES / DECIMAL	.XX = ± .01	$.XXX = \pm .005$	ANGLES ± 1°
	MILLIMETERS (mm)	$.XX = \pm 0.20$		