



TITLE

OCTAL T1/E1 TRANSFORMER

PN

37542

REV

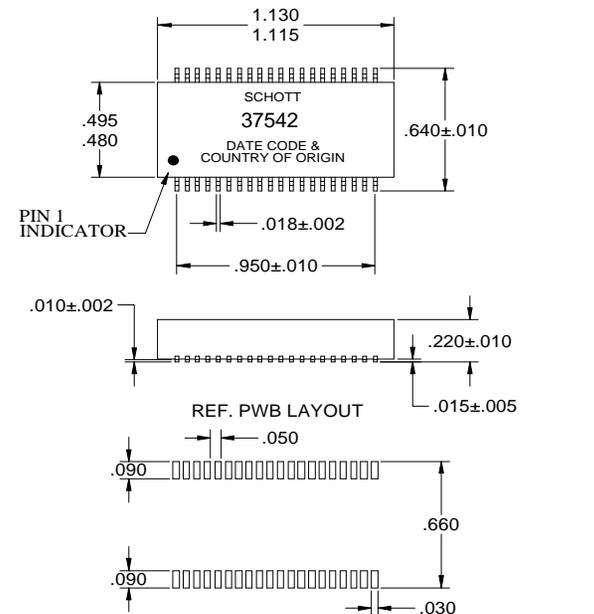
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AGENCY APPROVAL: NA

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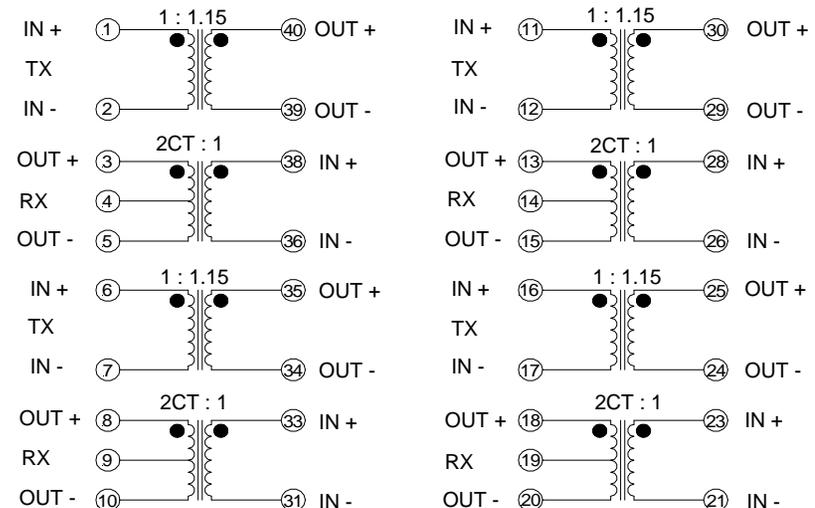
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DIMENSIONAL OUTLINE



COPLANARITY OF PINS IS LESS THEN OR EQUAL TO 0.004 INCHES

SCHEMATIC



SPECIFICATIONS

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

1. TURNS RATIO:

TRANSMIT (IN+ TO IN-) : (OUT+ TO OUT-) 1 : 1.15 ±2%
 RECEIVE (IN+ TO IN-) : (OUT+ TO OUT-) 1 : 2CT ±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:

TRANSMIT (IN+ TO IN-) 0.6 OHMS MAX
 TRANSMIT (OUT+ TO OUT-) 0.8 OHMS MAX
 RECIEVE (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 TURNS RATIO 2 & 1.15 IS 100 OHM REF.)
 25 OHMS CONECTED TO THE LOW TURNS SIDE OF 2 RATIO TRANSFORMER)
 (54 OHMS CONNECTED TO THE LOW TURNS SIDE OF 1.15 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 @ 1 MHz

INCHES / DECIMAL	.XX = ± .01	.XXX = ±.005	ANGLES ± 1°
MILLIMETERS (mm)	.XX = ± 0.20		