

TITLE: SPECIFICATION CONTROL DRAWING
SMITHS INTERCONNECT PROPRIETARY

REVISIONS RECORD			
REV	SHEET	DATE	DESCRIPTION

[illegible]

SMITHS INTERCONNECT 8851 SW OLD KANSAS AVE. STUART, FL 34997	CAGE CODE # 24602	DWG# 1011565000	SHEET	REF
			REV LEVEL	B

TITLE: SPECIFICATION CONTROL DRAWING

PART IDENTIFIER: TT5XXXF

(0) = .0 DB AND (5) = .5 DB
WHOLE DB VALUE (00 THRU 20)

DESCRIPTION: CHIP ATTENUATOR, ROHS COMPLIANT

ASSEMBLY DWG: 1902084

1.0 SPECIFICATIONS

1.1 ELECTRICAL

- 1.1.1 IMPEDANCE: 50 OHMS NOMINAL.
- 1.1.2 FREQUENCY RANGE: DC-18GHZ
- 1.1.3 ATTENUATION VALUES AVAILABLE: 0-20DB IN 0.5DB INCREMENTS.
- 1.1.4 ATTENUATION ACCURACY: SEE TABLE.

ATTENUATION ACCURACY				
DB	DC - 4 GHZ	4 - 8 GHZ	8 - 12.4 GHZ	12.4 - 18 GHZ
0	-0,+3	-0,+5	-0,+5	-0,+5
1 -3	±0.3	±0.5	±0.5	±0.5
4 - 6	±0.4	±0.5	±0.5	±0.75
7 - 10	±0.5	±0.5	±0.75	±1.0
11 - 15	±0.75	+0.5,-3.0	+0.5,-3.5	---
16 - 20	±1.0	+0.5,-4.0	+1.0,-6.0	---

- 1.1.5 VSWR: 1.30 MAX.
- 1.1.6 INPUT POWER: 100 MILLIWATTS CW.
 - 1.1.6.1 FULL RATED POWER TO 125°C, DERATED LINEARLY TO 0 WATTS AT 150°C.
 - 1.1.6.2 PEAK POWER, 1 WATT FOR 10US PULSE WIDTH @ 1% DUTY CYCLE.

1.2 MECHANICAL:

- 1.2.1 OUTLINE DWG: SEE SHEET 2.
- 1.2.2 WORKMANSHIP: PER MIL-PRF-55342.

1.3 ENVIRONMENTAL:

- 1.3.1 ALTITUDE:
 - 1.3.1.1 NON-OPERATING: SEA LEVEL TO 50,000 FEET.
 - 1.3.1.2 OPERATING: SEA LEVEL TO 50,000 FEET.
- 1.3.2 TEMPERATURE RANGE:
 - 1.3.2.1 NON-OPERATING: -55 C TO +150 C.
 - 1.3.2.2 OPERATING: -55°C TO +150°C.
- 1.3.3 VIBRATION: PER MIL-STD-202, METHOD 204, COND. D.
- 1.3.4 SHOCK: PER MIL-STD-202, METHOD 213, COND. I.
- 1.3.5 MOISTURE RESISTANCE: PER MIL-STD-202, METHOD 106 EXCEPT SUBCYCLE STEPS 7A AND 7B AND POLARIZATION NOT APPLICABLE.

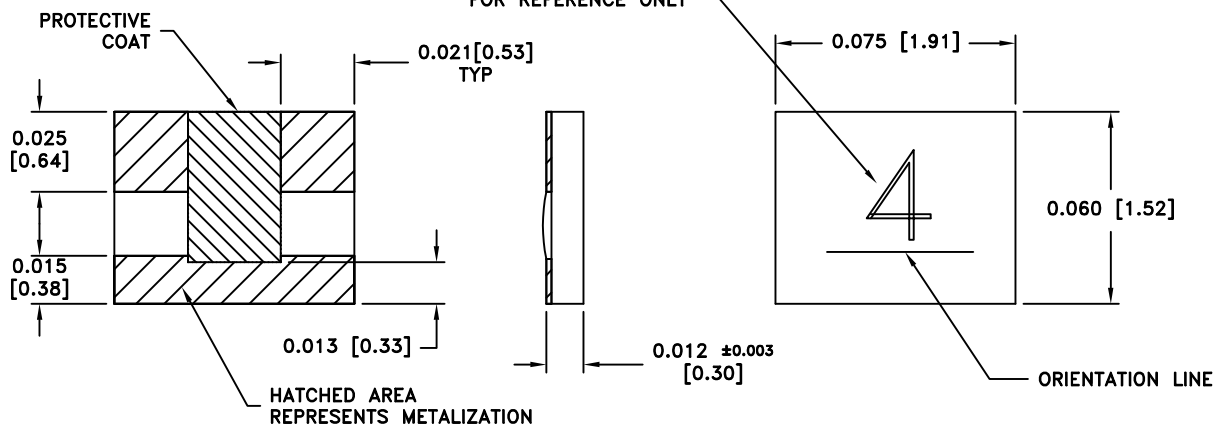
2.0 UNIT MARKING: MARKED WITH DB VALUE.
LEGIBILITY AND PERMANENCY PER MIL-STD-130.

3.0 QUALITY ASSURANCE:

- 3.1 SAMPLE INSPECT PER ANSI/ASQC Z1.4 GENERAL INSPECTION, LEVEL II, AQL = 1.0.
 - 3.1.1 VISUAL AND MECHANICAL EXAMINATION FOR CONFORMANCE TO OUTLINE DRAWING REQUIREMENTS.
- 3.2 PERFORM INSPECTION IN ACCORDANCE WITH 824W170 AND 824F036 FOR COMMERCIAL GRADE PRODUCT.
- 3.3 TEST DATA REQUIREMENTS:
 - 3.3.1 NO TEST DATA REQUIRED FOR CUSTOMER.
 - 3.3.2 DATA RETENTION – 24 MONTHS

4.0 PACKAGING: STANDARD PACKING PER 755W002.

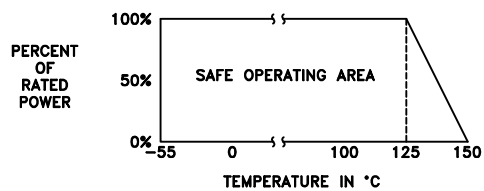
SMITHS INTERCONNECT 8851 SW OLD KANSAS AVE. STUART, FL 34997	CAGE CODE # 24602		DWG #	1011565000
	CHANGE NOTICE	EN 10-E0351	REV LVL	B
			SHEET	1 OF 2

UNIT MARKING SHOWN IS
FOR REFERENCE ONLY**MECHANICAL SPECIFICATIONS:****SUBSTRATE:**

MATERIAL - ALUMINA 96%, MIL-I-10.

TERMINAL:MATERIAL - THICK FILM, LEAD FREE, PLATING
RoHS COMPLIANT.**RESISTIVE ELEMENT:**

MATERIAL - THIN FILM, TANTALUM NITRIDE.

METRIC EQUIVALENTS GIVEN IN [mm]
FOR REFERENCE INFORMATION ONLY**POWER RATING AND DERATING**UNLESS OTHERWISE
SPECIFIED DIMENSIONS
ARE IN INCHES**TOLERANCES**

FRACT	---
ANG	---
XX	---
XXX	± 0.005
XXXX	---

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CAGE CODE

24602

SCALE

1:1

DRAWN BY

JG 3/10/10

CHECKED BY

APPROVED BY

REV
B

CHANGE NOTICE

EN 10-E0351

DRAWING NO

1011565000

SHEET

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