TITLE: SPECIFICATION CONTROL DRAWING

PART IDENTIFIER: TS05XXW3S
(XX) DB VALUE

DESCRIPTION: CHIP ATTENUATOR

ASSEMBLY DWG: 1900544

1.0 SPECIFICATIONS:

1.1 ELECTRICAL:

1.1.1 IMPEDANCE: 50 OHMS NOMINAL.

1.1.2 FREQUENCY RANGE: DC-12.4 GHZ.

1.1.3 ATTENUATION VALUES AVAILABLE: 0-20DB IN 1DB INCREMENTS.

1.1.4 ATTENUATION ACCURACY: SEE TABLE.

ATTENUATION ACCURACY			
DB	**DC - 4 GHZ**	**4 - 8 GHZ**	**8 - 12.4 GHZ**
0	-0,+.3	-0,+.5	-0,+.5
1 -3	±0.3	±0.5	±0.5
4 - 6	±0.4	±0.5	±0.5
7 - 10	±0.5	±0.5	±0.75
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: DC - 4 GHZ - 1.25 MAX 8 - 12.4 GHZ - 1.50 MAX
4 - 8 GHZ - 1.35 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 WATTS 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 AND LOAD ARE 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 DWG REQUIREMENTS.

3.2 PERFORM INSPECTION IN ACCORDANCE WITH 824W170 AND 824F036 FOR COMMERCIAL GRADE PRODUCT.

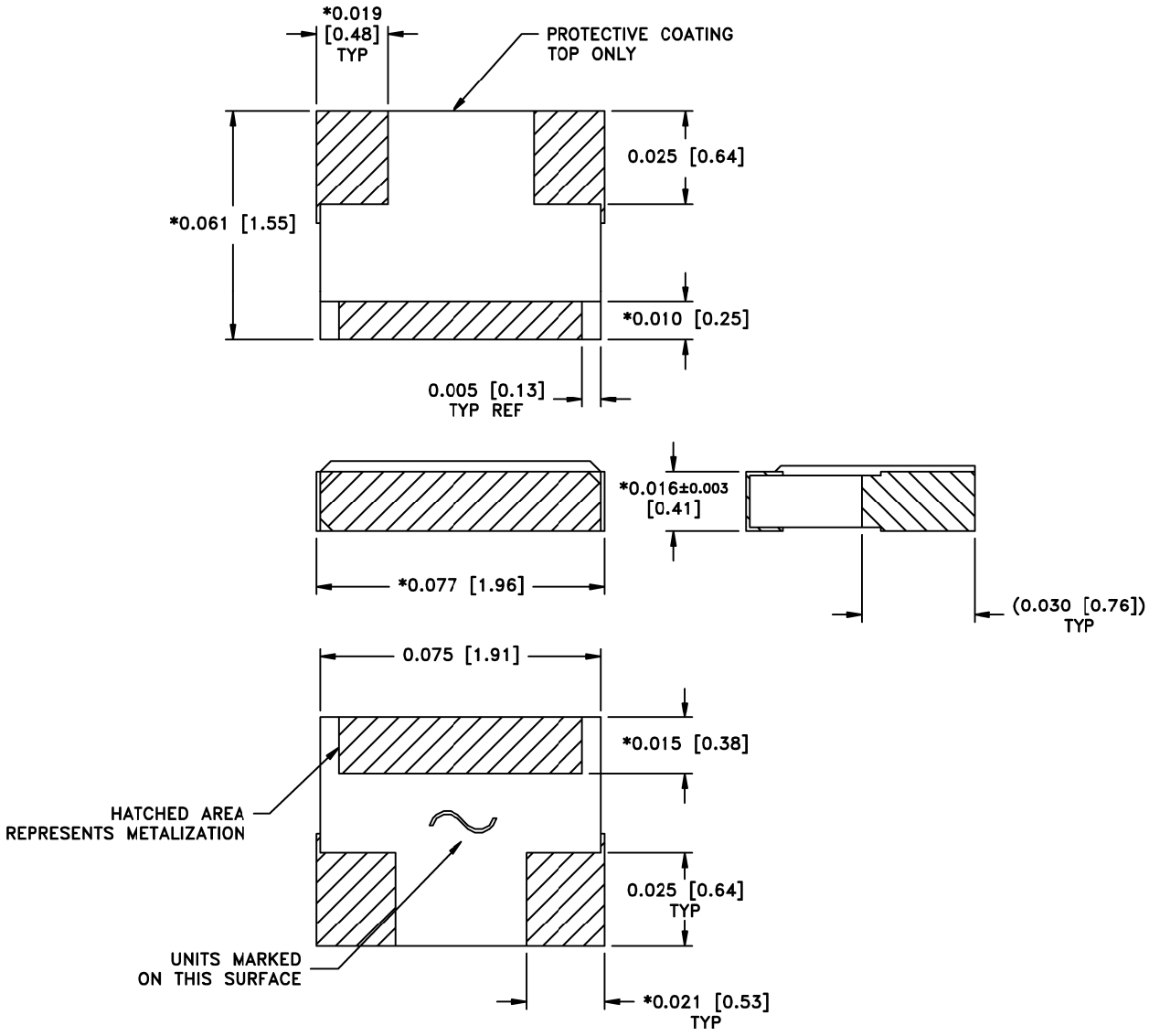
3.3 TEST DATA REQUIREMENTS:

3.3.1 NO TEST DATA REQUIRED FOR CUSTOMER.

3.3.2 DATA RETENTION – 24 MONTHS.

4.0 PACKAGING: STANDARD PACK PER 755W002.

PART ID REF
TS0500W3S



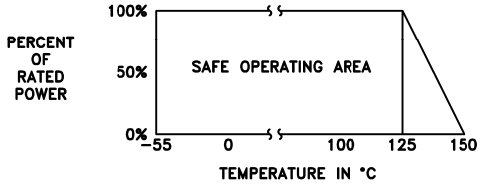
METRIC EQUIVALENTS GIVEN IN [mm]
FOR REFERENCE INFORMATION ONLY

* DIMENSIONS APPLY BEFORE SOLDER. ALLOW 0.015 MAX FOR ALL PRETINNED SURFACES.

MECHANICAL SPECIFICATIONS:

SUBSTRATE:
MATERIAL – ALUMINA 96%, MIL-I-10.
TERMINAL:
MATERIAL – THICK FILM, NICKEL BARRIER, SOLDER COATED.
RESISTIVE ELEMENT:
MATERIAL – THIN FILM, TANTALUM NITRIDE.

POWER RATING AND DERATING



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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES

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

CAGE CODE	SCALE	DRAWN BY	CHECKED BY	APPROVED BY
24602	32:1	CRH 09/21/09		DAR 4/11/02

REV	CHANGE NOTICE	DRAWING NO	SHEET
M	EN 09-E0971	1007465000	2 OF 2