

1

2

3

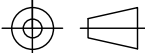
4

5

6

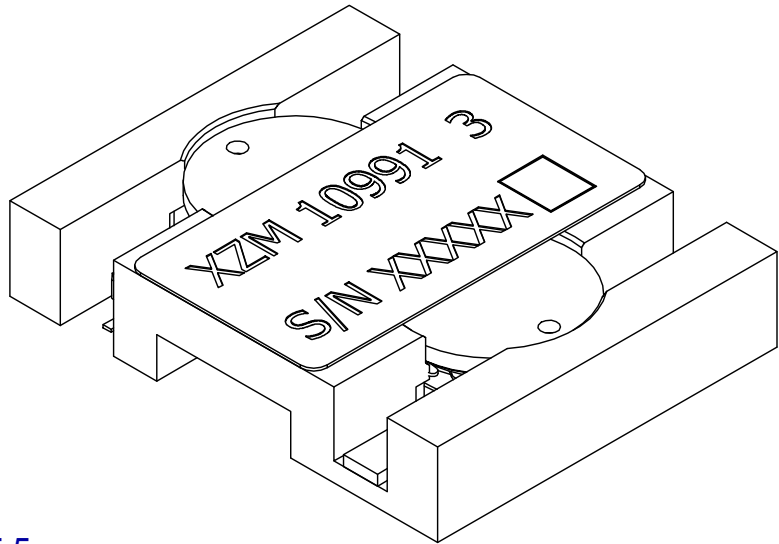
7

3rd ANGLE PROJECTION



DRAWING TO BE READ IN CONJUNCTION WITH BS 8888

MESL Microwave Ltd



THE UNIT SHALL MEET THE FOLLOWING ELECTRICAL SPECIFICATION OVER THE OPERATING TEMPERATURE RANGE.

DUPLEXER ORIENTATION: REFER TO DRAWING 10991-000-OL.

FREQUENCY: 8.3 TO 10.3 GHz.

FREQUENCY BANDWIDTH:2GHz.

INSERTION LOSS PORT 1 TO PORT 2: 0.95dB MAX.

INSERTION LOSS PORT 2 TO PORT 3: 0.45dB MAX.

VSWR (PORTS 1, 2 AND3): 1.27:1 (RETURN LOSS 18.5dB)MAX.

ISOLATION (PORT 2 TO 1): 36dB MIN. NB - PORT 3 TERMINATED IN A MATCHED LOAD.

ISOLATION (PORT 1 TO 3): 18dB MIN. NB - PORT 2 TERMINATED IN A MATCHED LOAD.

ISOLATION (PORT 3 TO 1): 18dB MIN. NB - PORT 2 TERMINATED IN A MATCHED LOAD.

ISOLATION (PORT 3 TO 2): 18dB MIN. NB - PORT 1 TERMINATED IN A MATCHED LOAD.

POWER AT PORT 1: PEAK FORWARD POWER: 13W MAX

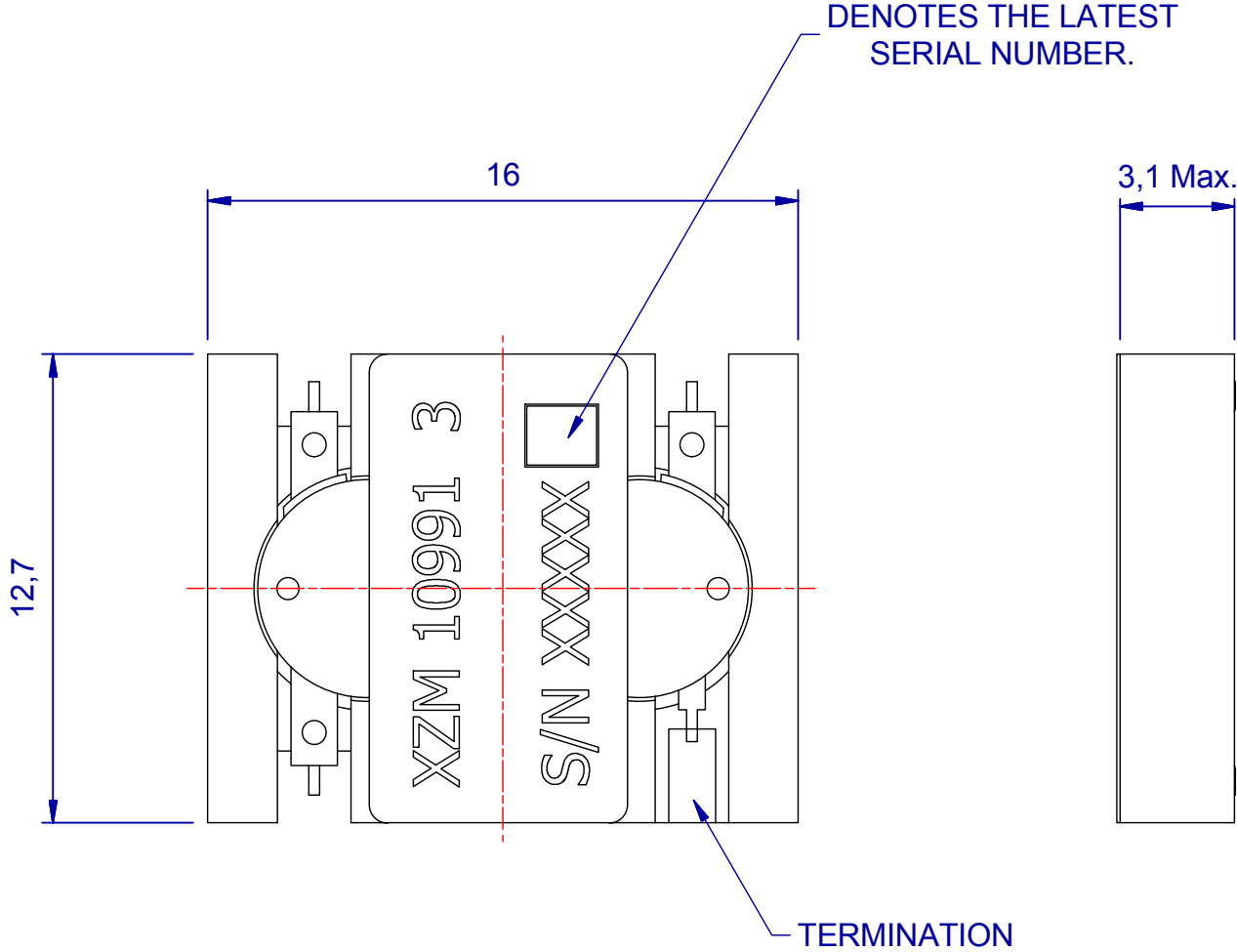
AVERAGE FORWARD: 7W MAX.

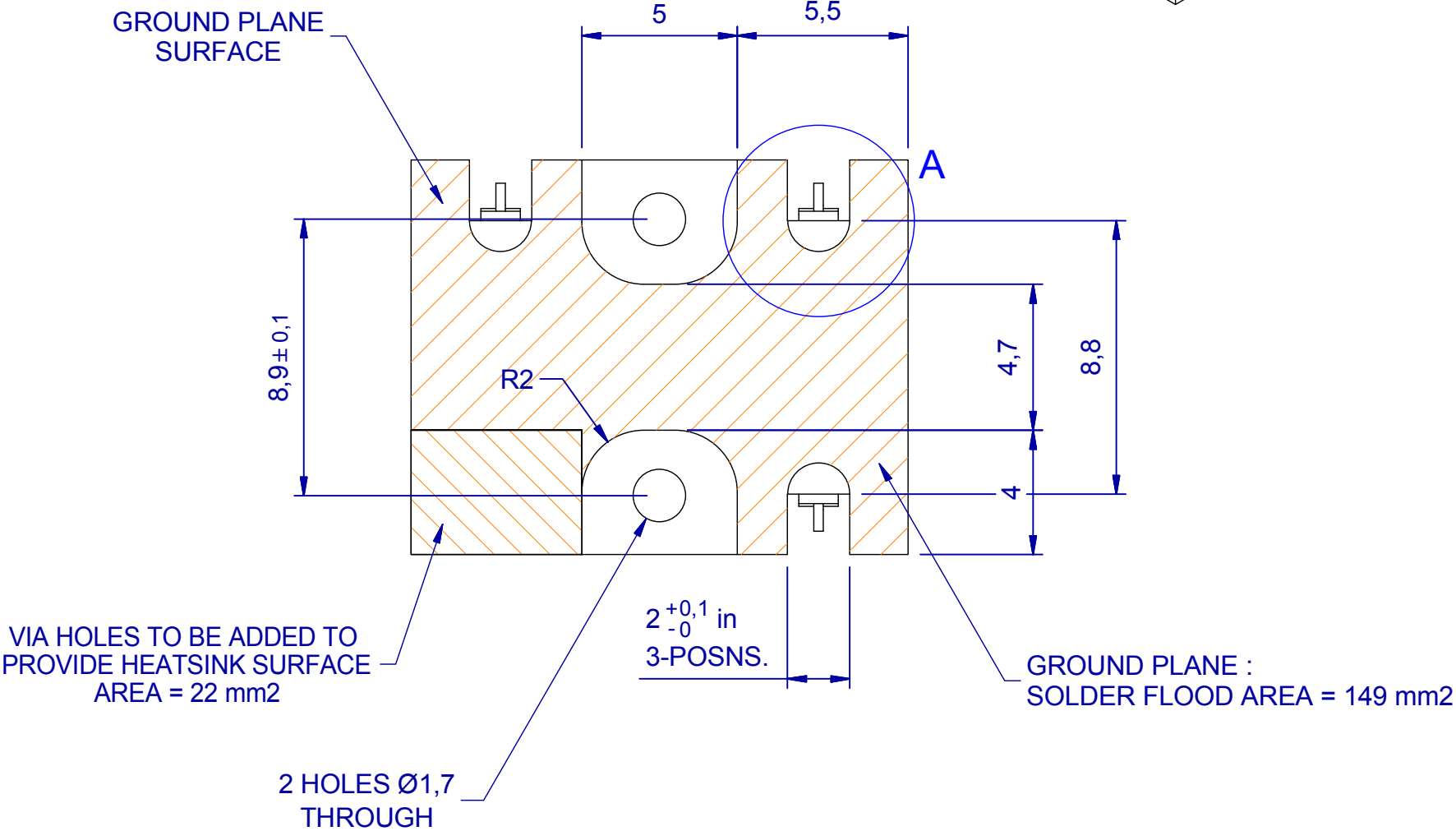
AVERAGE REVERSE: 6.5W MAX.

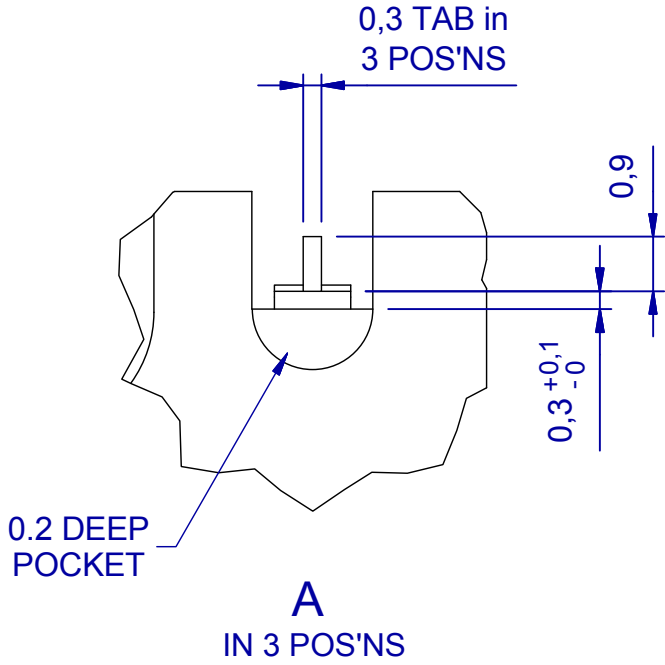
PULSE WIDTH: 100µs MAX.

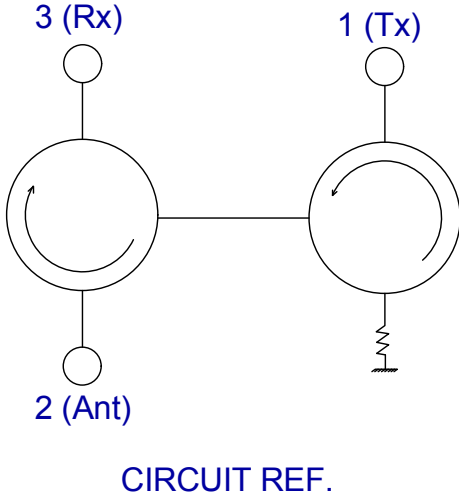
1. ENVIRONMENTAL

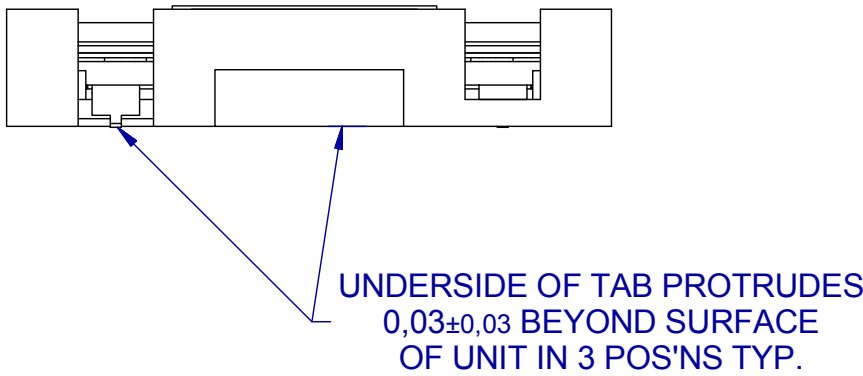
Operating Temperature:	0°C to +70°C
Storage Temperature:	-40°C to +85°C
Process Temperature:	Jedec J-STD-020C (Max temp 250°C)
Repair Temperature:	TBA
Vibration:	Sine vibration 4 to 10Hz: 5mm amplitude 10 to 15Hz: 2g 15 to 200Hz: 1g 3 * 2 hours, hard mount. Functional check after test.
Shock:	6 * 3 shocks, 50G 11ms. Half sine, hard mount MIL-STD-202G, Method 213. Functional check after test.
Thermal Shock	-40°C to +70°C, 25 cycles MIL-STD-202G, Method 107. Functional check after test.
Burn in	12 hours @ 125°C
Moisture Resistance: Operating	±2°C 90to 95% RH, 10 days.
Moisture Resistance: Non Operating	25/65°C cyclic, 90 to 95% RH, 7 days. Functional check after test.
Low Pressure Storage	57kPa min. (4750m, 15,000ft)











Q.A.
R.S.
DATE
10/03/2011

PROD.REL.
S.A.
DATE
10/03/2011

ENG.APP.
J.G.
DATE
07/11/2007

MECH.ENG.
N.W.
DATE
10/03/2011

DRAWN
S.W.
DATE
16/10/2006

NOTES:
1. MATERIAL: BODY - MILD STEEL: TABS - BERYLLIUM COPPER
2. FINISH: BODY - SILVER OVER NICKEL PLATING: TABS - SILVER PLATING

ORIGINAL SCALE 5:1
DO NOT SCALE PRINT

MATERIAL
SEE NOTE 2

SPECIFICATION

GENERAL TOLERANCE U.O.S. (ISO2768-TH)
0 - 6,0 : ±0,05 120,0 - 400,0 : ±0,2
6,0 - 30,0 : ±0,1 400,0 - 1000,0 : ±0,3
30,0 - 120,0 : ±0,15 1000,0 - 2000,0 : ±0,5
Angular Dim : ±0,5° Symmetry ±0,05

FINISH TO BE 1,6 U.O.S.

DIMENSION IN mm

MASS (kg):
N/A

FINISH
SEE NOTE 3

SPECIFICATION

RED (Development Only)

RESPONSIBLE AUTHORITY J. Gillies

TITLE X' BAND DOUBLE JUNCTION
TYPE XZM 10991

SECURITY CLASSIFICATION

CONTRACTORS DRAWING NUMBER
10991-000-OL

SERVICE DRAWING NUMBER

SHEET No. 1
OFF 1

ISS B: ADDITION OF SPECIFICATION DETAILS.

B	30/04/2014	
ISSUE	DATE	MOD NUMBER

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A 2

LIGHTLY REMOVE ALL BURRS AND SHARP EDGES U.O.S.

ISS B: ADDITION OF SPECIFICATION DETAILS.

