RF AMPLIFIER
MODEL WN3105

Features
- High Output Power: +28 dBm Typical
- High Third Order I.P: +44 dBm Typical
- Operating Temp. - 55 ºC to +85 ºC

Specifications

<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>TYPICAL</th>
<th>MIN/MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ta = 25 ºC</td>
<td>Ta = -55 ºC to +85 ºC</td>
</tr>
<tr>
<td>Frequency (MHz)</td>
<td>0.5 - 300 MHz</td>
<td>0.5 - 200 MHz</td>
</tr>
<tr>
<td>Gain (dB)</td>
<td>12.0</td>
<td>10.0 Min.</td>
</tr>
<tr>
<td>Power @ 1 dB Comp. (dBm)</td>
<td>28.0</td>
<td>27.0 Min.</td>
</tr>
<tr>
<td>Gain Flatness (dB)</td>
<td>&lt;±0.5</td>
<td>±0.7 Max.</td>
</tr>
<tr>
<td>VSWR In</td>
<td>&lt;1.5:1</td>
<td>1.9:1 Max.</td>
</tr>
<tr>
<td>VSWR Out</td>
<td>&lt;1.5:1</td>
<td>1.9:1 Max.</td>
</tr>
<tr>
<td>Noise Figure (dB)</td>
<td>4.5</td>
<td>5.7 Max.</td>
</tr>
<tr>
<td>Power Vdc mA</td>
<td>+15</td>
<td>+15</td>
</tr>
</tbody>
</table>

* Measured in a 50-Ohm system at +15 Vdc unless otherwise specified.

Typical Performance Data

- Gain (dB)
- Noise Figure (dB)
- 1 dB Comp. (dBm)
- Input VSWR
- Output VSWR

Legend ——— +25 ºC
NOTES:

1. HOUSING: 70/30 CN/NI
   ELECTRONIC GRADE

FIELD REPLACEABLE
SMA CONNECTORS

DC INPUT
GROUND

MTG SURFACE

4X 2-56 UNC - 2B  \( \frac{1}{5} \) .13

CAUTION

THIS ASSEMBLY CONTAINS PARTS SENSITIVE
TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).
USE ESD PRECAUTIONARY PROCEDURES WHEN
TOUCHING, REMOVING OR INSERTING

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED

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NOTES:
1. MATERIAL: KOVAR
2. FINISH: NICKEL/GOLD

<table>
<thead>
<tr>
<th>PIN</th>
<th>RF IN</th>
<th>RF OUT</th>
<th>DC</th>
<th>GROUND</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIN 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PIN 8</td>
<td>RF IN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PIN 10</td>
<td>RF OUT</td>
<td>DC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ALL OTHER</td>
<td>GROUND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CASE</td>
<td>GROUND</td>
<td></td>
<td></td>
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REV. CHNG/DATE
PRELIMINARY RELEASE 2012/05/14

DIMENSIONS ARE IN INCHES
* DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
* PARENTHETICAL INFORMATION FOR REFERENCE ONLY
* DIMENSIONING AND TOLERANCING IAW ASME Y14.5-1994
* SURFACE FINISH
* MACHINED TOOL MISMATCH: .002 MAX.
* CONCENTRICITY MACHINED DIA: .002 FIM
* REMOVE ALL BURRS AND SHARP EDGES .010 RAD MAX.
* INTERPRET DRAWING IAW ASME Y14.100-2004

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SPECTRUM MICROWAVE, INC
2707 Black Lake Place
Philadelphia, PA 19154-1088 (USA)

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