

### 7.5 – 18 GHz 12 dBm Amplifier

**FEATURES**

- $P_{1dB}$  : >+12 dBm
- NF : 4.5 dB
- Bias Condition: 200 mA @ 15 V

**ELECTRICAL SPECIFICATIONS ( at 25 °C)**

SYMBOL	DESCRIPTION	MIN	TYP	MAX	UNITS
<b>FREQ</b>	Frequency Range	7.5		18	GHz
<b>SSG</b>	Small Signal Gain	22.5	24.0	25.5	dB
<b>NF</b>	Noise Figure at OTR			4.5	dB
<b>P<sub>1dB</sub></b>	Output Power at 1 dB Gain Compression at OTR	+12			dBm
<b>P<sub>in</sub></b>	Input Power w/o damage			+20	dBm
<b>IP3</b>	Third Order Intercept Point	+22			dBm
<b>Spurious</b>	Spurious		-50		dBc
<b>Harmonics</b>	Harmonics at 1dB <sub>CP</sub>	-20			dBc
<b>P.M.</b>	Phase Matching Between All Amplifiers		±10		degree
<b>G. M.</b>	Gain Matching Between All Amplifiers		±1.0		dB
<b>VSWR, IN/OUT</b>	Input / Output VSWR			2.0:1	-----
<b>MSIP</b>	Max. Safe Input Power (CW)			20	dBm
<b>V<sub>dc</sub></b>	DC Supply Voltage	+14.5	+15.0	+15.5	Volt
<b>I<sub>dc</sub></b>	Current Supply			0.2	A
<b>OTR</b>	Operating Temperature Range	0		75	°C

**CONNECTOR** : SMA Female, Replaceable

**HOUSING OUTLINE** : as attached, unit is inch.

