

AMPLIFIER/DOUBLER

AD-1020



Features

- Input 10.0 to 20.0 GHz
- Output 20.0 to 40.0 GHz
- +7 dBm Typical Output Power
- 2.92 mm Output Connector

Electrical Specifications - Specifications guaranteed from -30 to +70°C, measured in a 50-Ohm system.

Parameter	INPUT (GHz)	OUTPUT (GHz)	Min	Typ	Max
Input (dBm) F(in)	10.0-20.0		+5		+10
Output Converted Power (dBm) 2F(out)		20.0-40.0	+3	+7	
Suppressions (dBc) F(in) Fundamental 3F(out) Third Harmonic		10.0-20.0 30.0-40.0		13 15	
Bias Requirements (mA) ¹ +5 Volts DC -5 Volts DC				100 10	120 20

¹It is recommended that the negative bias be applied before or concurrent with the positive bias.

Part Number Options

Please specify package style by adding to model number.	
Package Style(s)	Example
<u>P</u>	AD-1020 <u>P</u>

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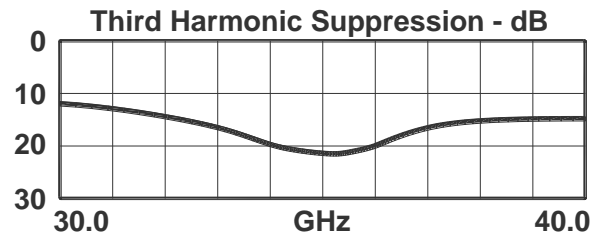
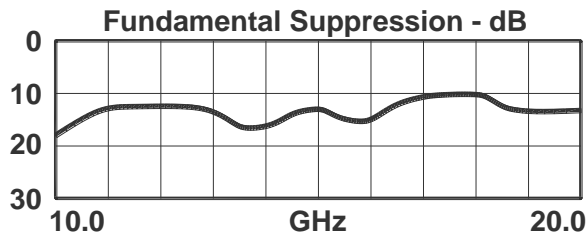
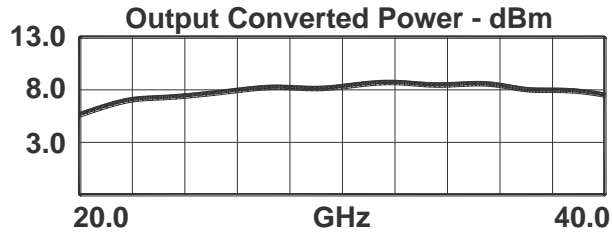
AMPLIFIER/DOUBLER

Page 2

AD-1020

**Input 10.0 to 20.0 GHz
Output 20.0 to 40.0 GHz**

Typical Performance



DATA SHEET NOTES:

1. Maximum input power without damage is +16 dBm at +70°C.
2. Specifications are subject to change without notice. Contact Marki Microwave for the most recent specifications and data sheets.

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