



## AMPLIFIER/DOUBLER/AMPLIFIER

**ADA-0307**



### Features

- Input 3.0 to 7.0 GHz
- Output 6.0 to 14.0 GHz
- +14 dBm Typical Output Power
- 20 dBc Typical Fundamental Suppression
- 20 dBc Typical 3rd Harmonic Suppression

**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)	3.0-7.0		+5		+8
Output Converted Power (dBm) 2F(out)		6.0-14.0	+12	+14	
Suppressions (dBc) F(in) Fundamental 3F(out) Third Harmonic		3.0-7.0 9.0-14.0		20 20	
Bias Requirements (mA) <sup>1</sup> +5 Volts DC -5 Volts DC				100 10	120 20

<sup>1</sup>It 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>	ADA-0307 <u>P</u>

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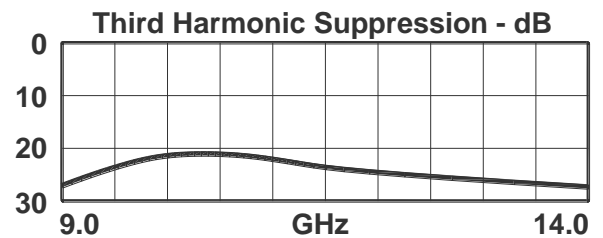
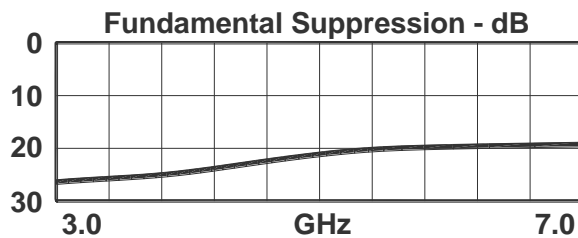
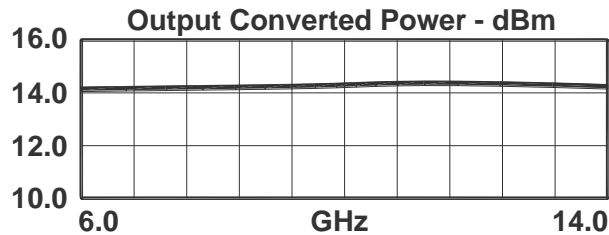
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**Input 3.0 to 7.0 GHz  
Output 6.0 to 14.0 GHz**

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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