



AMPLIFIER/DOUBLER/AMPLIFIER

ADA-0306



Features

- Input 3.0 to 6.0 GHz
- Output 6.0 to 12.0 GHz
- +13 dBm Typical Output Power
- 15 dBc Typical Fundamental Suppression
- 15 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)	3.0-6.0		+5		+8
Output Converted Power (dBm) 2F(out)		6.0-12.0	+10	+13	
Suppressions (dBc) F(in) Fundamental		3.0-6.0		15	
3F(out) Third Harmonic		9.0-12.0		15	
Bias Requirements (mA) ¹ +5 Volts DC				100	120

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) ¹	Example
<u>E</u> , <u>P</u>	ADA-0306 <u>E</u>

¹Connectorized test fixtures available for most carrier and surface mount packages. Consult factory.

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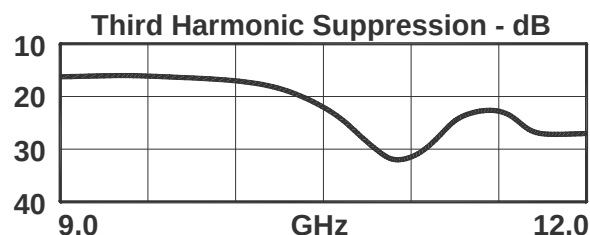
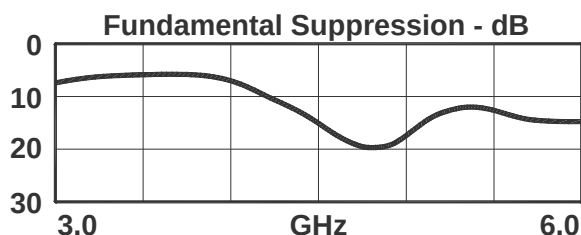
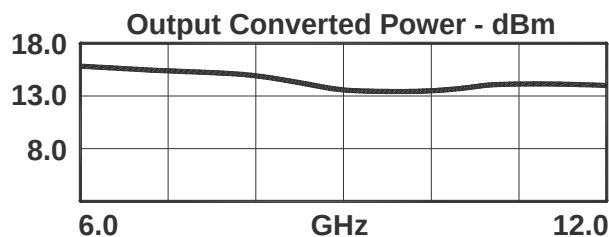
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Input 3.0 to 6.0 GHz
Output 6.0 to 12.0 GHz

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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