



AMPLIFIER/DOUBLER/AMPLIFIER

ADA-0512



Features

- Input 5.0 to 12.0 GHz
- Output 10.0 to 24.0 GHz
- +14 dBm Typical Output Power
- 20 dBc Typical Fundamental Suppression
- 25 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)	5.0-12.0		+6		+8
Output Converted Power (dBm) 2F(out)		10.0-24.0	+12	+14	
Suppressions (dBc) F(in) Fundamental 3F(out) Third Harmonic		5.0-12.0 15.0-24.0		20 25	
Bias Requirements (mA) ¹ +5 Volts DC -5 Volts DC				120 10	150 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>K</u>	ADA-0512 <u>K</u>

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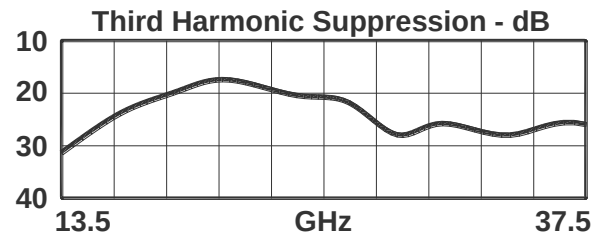
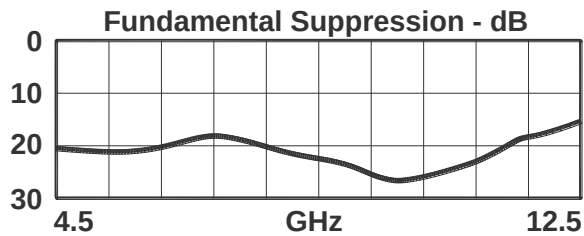
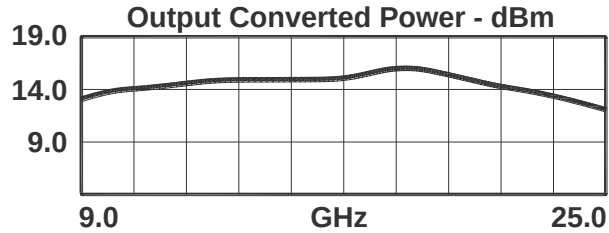
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Input 5.0 to 12.0 GHz
Output 10.0 to 24.0 GHz

Typical Performance



DATA SHEET NOTES:

1. Maximum input power without damage is +13 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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