



**Features**

- ¾ Input 5.0 to 12.0 GHz
- ¾ Output 10.0 to 24.0 GHz
- ¾ +14 dBm Typical Output Power
- ¾ 20 dBc Typical Fundamental Suppression
- ¾ 25 dBc Typical 3rd Harmonic Suppression

**Electrical Specifications**

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) <sup>1</sup> +5 Volts DC -5 Volts DC				120 10	150 20

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

**Part Number Options**

<i>Please specify package style by adding to model number.</i>	
Package Style(s) <sup>1</sup>	Example
EX, K	ADA-0512 EX

<sup>1</sup>Connectorized test fixtures available for most carrier and surface mount packages. Consult factory.

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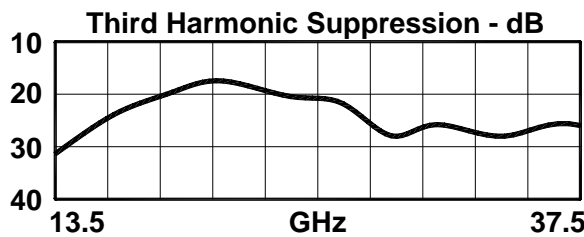
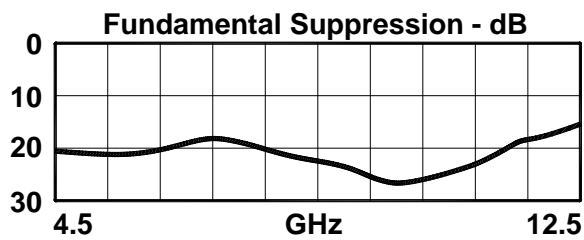
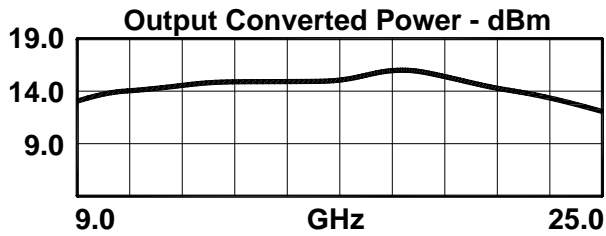
AMPLIFIER/DOUBLER/AMPLIFIER

ADA-0512

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Input 5.0 to 12.0 GHz  
Output 10.0 to 24.0 GHz

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



For additional information, please visit the following sections on the Marki Microwave website.

- [Data Sheet Notes](#) ▶
- [Application Notes](#) ▶
- [Package Outlines](#) ▶
- [MTBF Calculations](#) ▶
- [Terms & Conditions of Sale](#) ▶
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