

AMPLIFIER/QUADRUPLER/AMPLIFIER

AQA-2050



Features

- Input 5.0 to 12.5 GHz
- Output 20.0 to 50.0 GHz
- +18 dBm Typical Output Power
- 37 dBc Typical Fundamental Suppression
- 15 dBc Typical 2nd Harmonic 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)	5.0-12.5		+5		+8
Output Converted Power (dBm) 4F(out)		20.0-47.0 47.0-50.0	+13 +9	+18 +15	
Suppressions (dBc) F(in) Fundamental 2F(out) Second Harmonic 3F(out) Third Harmonic		5.0-12.5 10.0-25.0 15.0-37.5		37 15 25	
Bias Requirements (mA) ¹ +5 Volts DC -5 Volts DC				400 15	500 30

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

Part Number Options

<i>Please specify package style by adding to model number.</i>	
Package Style(s)	Example
CMV , CMMV	AQA-2050 CMV

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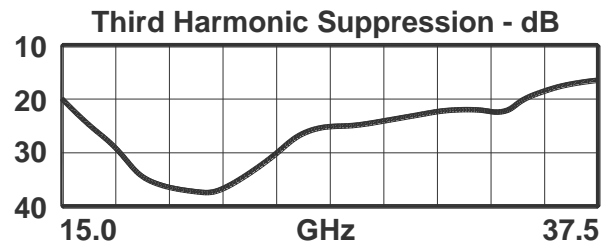
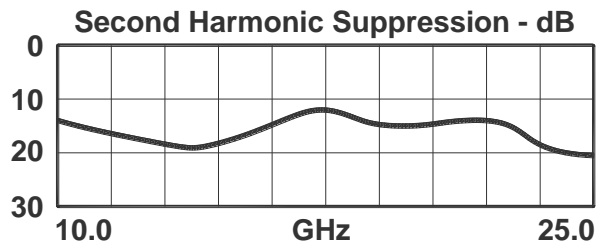
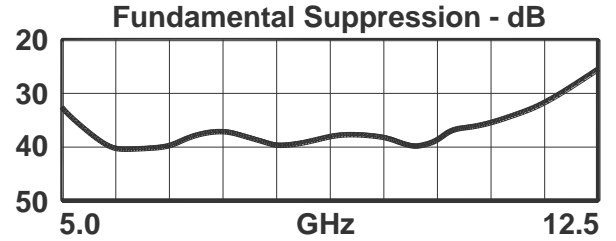
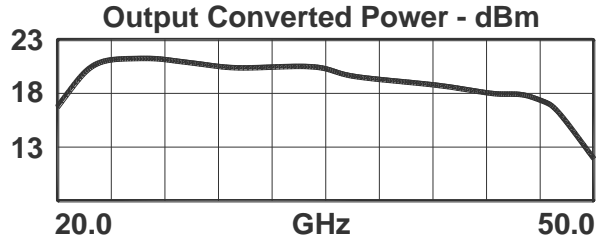
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Input 5.0 to 12.5 GHz
Output 20.0 to 50.0 GHz

Typical Performance



DATA SHEET NOTES:

1. Maximum input power without damage is +13 dBm at +70°C.
2. A heat sink is required for sustained operation.
3. Specifications are subject to change without notice. Contact Marki Microwave for the most recent specifications and data sheets.

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215 Vineyard Court, Morgan Hill, CA 95037 | Ph: 408.778.4200 | Fax: 408.778.4300 | info@markimicrowave.com

www.markimicrowave.com