

AMPLIFIER/QUADRUPLER/AMPLIFIER

AQA-2040



Features

- Input 5.0 to 10.0 GHz
- Output 20.0 to 40.0 GHz
- +19 dBm Typical Output Power
- 38 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)	5.0-10.0		+5		+8
Output Converted Power (dBm) 4F(out)		20.0-40.0	+13	+19	
Suppressions (dBc) F(in) Fundamental 2F(out) Second Harmonic 3F(out) Third Harmonic		5.0-10.0 10.0-20.0 15.0-30.0		38 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
CM , CMV	AQA-2040 CM

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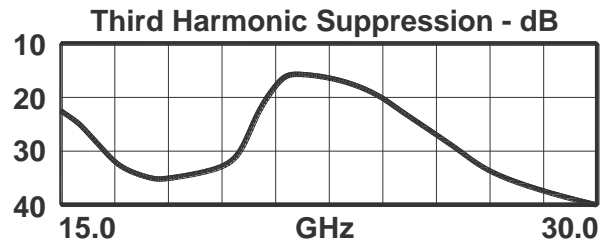
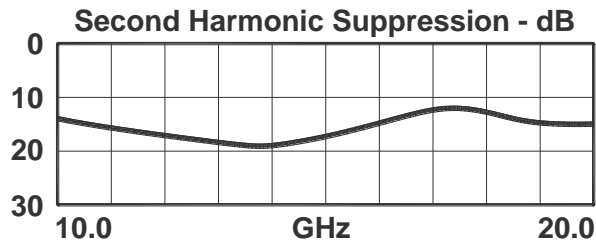
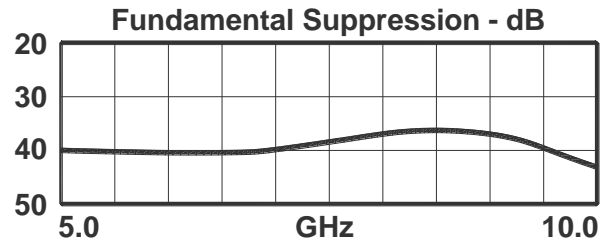
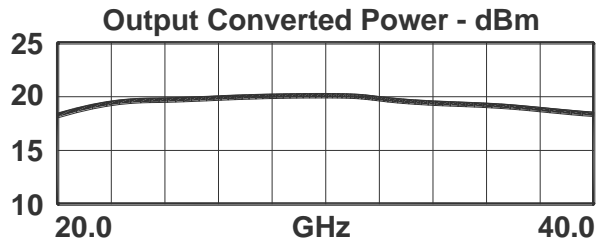
AMPLIFIER/QUADRUPLER/AMPLIFIER

AQA-2040

Page 2

Input 5.0 to 10.0 GHz
Output 20.0 to 40.0 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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