

The **MA4070B** is a solid state, fixed gain power amplifier for MMDS applications. The MA4070 has an instantaneous bandwidth of 100 MHz in the 2.5 to 2.7 GHz frequency band. High linearity permits the MA4070B to operate with high level digital (64 QAM) signals, or with analog video signals. The MA4070B is a modular plug-in designed for use with the WaveCom MA4000 Series. Each



MA4000 card chassis with common MA4010 power supply can contain up to 2 - MA4070B power amplifiers and 2 - MA4061B MMDS Upconverters for a complete two channel transmitter in a 4U rack mount configuration. This advanced cost effective power amplifier offers high performance, flexibility and space efficiency.

Card Features:

- RF High, RF Low, and High Reverse Power alarms
- Linear transmit power for 64 QAM modulation
- May be operated as high with video
- Amplifier may be disabled via front panel or remote control
- Fully protected against reverse power
- High reliability, state of the art design using microstrip MMIC and surface mount technology; conservative component derating and 100% burn in help ensure reliable operation
- Low power consumption

System Features:

- Local control via LCD and 4 soft touch push buttons
- Remote control and monitoring via front panel configured RS232/RS485
- Durable design is reflected in the stainless steel chassis, active cooling, and lexan labels
- International internal switching power supply (100 to 240 VAC)



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SPECIFICATIONS — WAVECOM MA4070B

Power Amplifier Module

RF

Output Frequency	2500 to 2600 MHz (any 100 MHz band available from 2500 to 2700 MHz)
Output Power	FCC emission mask approved for 31.5 dBm
Gain	34 dB $\pm$ 2 dB, fixed
Gain Stability	$\pm$ 0.5 dB (10 to 40°C)
Gain Flatness	$\pm$ 0.3 dB over 6 MHz
Mute Level	-60 dBc
Spurious	
Inband	-55 dBc
Out of band	-55 dBc
Sync Pulse Compression	2 IRE max (analog video, 7 W)
Spectral Sideband Regrowth	-35 dBc max. (64 QAM, 2 W)
Input Impedance	50 ohm
Output Connector	N female
Front Panel Indicators	DC power RF High RF Low High Reverse Power

Miscellaneous

Remote Control Interface	RS232/RS485
Remote Control Connector	RJ45 (in and out)
Operating Temperature	10 to 40°C (50 to 104°F)
MA4010 Power Supply	
(included with MA4000 chassis)	100 to 240 VAC; 50/60 Hz
Shipping Weight	
MA4000 chassis with MA4010 PS	18 lbs. (8.2 kg)
MA4070B Power Amplifier Module (each)	6.2 lbs. (2.8 kg)
Dimensions (MA4000 chassis)	19" (w) x 13.7" (d) x 7" (h) (48.3 x 34.8 x 17.8 cm)
Mounting (MA4000 chassis)	Standard 19" rack - 4U (7.0")

Other Features

Local and Remote Control
RF Output Disable Via Local or Remote Control



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