



MAXWELLON MXTFBA

400MHz to 2.5GHz

Bidirectional Amplifier

2023

The MXTFBA Bidirectional Power Amplifiers are widely used in various fields such as satellite communication, television broadcasting, point-to-point communication, data and image transmission, radar, remote control, remote sensing, electronic surveillance, and electronic warfare, thanks to their wide frequency range, high gain, and low noise coefficient. Full Wave Electronics has been a longstanding provider of microwave electronic products and components to the microwave electronics market.

■ Key Feature

- **Built-in Duplexer:** The amplifier features an integrated duplexer at the port, making it more compact than similar products in the market. This design enhances efficiency and eliminates the need for an external duplexer, allowing for easy installation and removal.
- **High-Power Imported Tubes:** Utilizing high-power imported tubes ensures excellent linearity, high efficiency, and strong reliability.
- **Independent Power Amplification for Each Carrier Frequency:** Each carrier frequency's power amplifier is independently configured, providing high output power and superior signal quality with cost-effective performance.
- **Automatic Bypass Function:** The device includes an automatic bypass function. In the event of high input power, elevated temperature, or excessive standing waves, the equipment will automatically switch to bypass mode, protecting the device and issuing corresponding alarms.
- **Micro-D 15-Pin Connector:** The use of a simple and compact micro-D 15-pin connector ensures easy and convenient connections.
- **Compatibility with Various Base Station Types:** The amplifier is versatile and can be integrated into various types of base stations, including those from Ericsson, Alcatel, Nokia, Huawei, Siemens, and others. Different Power Distribution Units (PDUs) can be employed for network integration.

■ Specification

Model	Frequency Range	Transmit Gain (dB)	Receive Gain (dB)	Forward Output Power (P1)	Reverse Output Power (P1)	Gain Flatness (±dB)	VSWR	Operating Voltage	Connector
MXTFBA-880980M10	880-980MHZ	40	25	40dBm(10W)	16dBm	±0.5	1.5	28V	SMA-K
MXTFBA-760780M05	760-780MHZ	16	12	37dBm(5W)	20dBm	±0.5	1.5	28V	SMA-K
MXTFBA-400450M20	400-450MHZ	16	12	43dBm(20W)	15dBm	±0.5	1.5	12V	SMA-K
MXTFBA-320350M20	320-350MHZ	43	24	43dBm(20W)	5dBm	±0.5	1.5	12V	SMA-K
MXTFBA-019021G04	1.9-2.1GHz	30	14	36dBm(4W)	5dBm	±0.5	1.5	12V	SMA-K
MXTFBA-024025G01	2.4-2.5GHz	15	26	30dBm(1W)	17dBm	±0.5	1.5	12V	SMA-K



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