

Switched Multi-Channel Amplifier

2000-8000 MHz

Model BXMF1020

FEATURES

- Phase Matched
- Amplitude Matched
- Built-in Input Drive Protection
- High Channel to Channel Isolation
- 4 Channel Design



Spectrum Microwave offers state-of-the-art multi-channel amplifiers used in demanding military frequency calibration systems. These 2, 3, and 4 channel modules are all phase matched, amplitude matched and offer both single and multiple path logic. These units allow the engineer to either distribute an amplified signal to multiple ports, or measure the amplified output from up to 4 auxiliary ports.

Parameter	Typical	Min./Max.
Frequency Range	2000 to 8000 MHz	2000 to 8000 MHz
Receive Gain	13 dB	-
CAL Path Gain	21 dB	-
Noise Figure	9 dB	-
1 dB Compression	+9 dBm	-
Single-Tone Spurious Free Dynamic Range	45 dB	-
Phase Tracking Delta (Electrical Degrees)	12° at any frequency	-
Amplitude Tracking (Channel to Channel)	2 dB Variation Between Channels	-
Out Of Band Rejection	30 dB	-
Reverse Isolation	40 dB	-
Channel to Channel Isolation	60 dB	-
Switching Speed (50% TTL to 90% / 10% RF)	200 nsec	-
VSWR	2.0:1	-
Switching Isolation (ON to OFF)	50 dB	-
DC Power	+6.5v / 525 mA, +3.3v / 250 mA, -15v / 50	
Housing Size	5.0 " x 3.0 " x 0.65 "	
RF Connectors	Field Replaceable SMA Connectors	
Operating Case Temp. (Min./Max. Values)	-40°C to +85°C	

Maximum (No Damage) Ratings

Storage Temperature	-65°C to +125°C
Operating Temperature	-55°C to +100°C
DC Voltage @ 25°C	+/- 20 VDC
Input Drive @ 25°C	+20 dBm