

# Medium Power Amplifier DM-MPMB-20-101

## Electrical Specifications (+25°C)

PARAMETER	UNITS
Frequency	.5 to 18 GHz
Small Signal Gain	20 dB min
Flatness	±1.75 dB max
Noise Figure	6.5 dB max
P1dB	23 dBm min
IP3	31 dBm nom
VSWR (input/output)	2.0:1 nom
DC Power	+11 to 15+ VDC, 450 mA nom
Max Input Power	+15 dBm CW

## Mechanical Specifications

PARAMETER	UNITS
Size (L x W x H)	0.998" x 0.75" x 0.365"
Connectors (In/Out)	SMA (f)/SMA (f)
Sealing	Hermetic
Finish	Grey Paint, Mounting surface Ni finish
Marking	Black per MIL-STD-130
Outline	001-0052

## Features

Internal Voltage Regulator  
Reverse Voltage Protection

## Environmental Specifications (by design)

PARAMETER	UNITS
Operating Temperature	-40 to +85°C
Storage Temperature	-54 to +85°C
Relative Humidity	IAW MIL-STD-810F, up to 95%
Altitude	up to 30,000 ft
Shock	IAW MIL-STD-202G method 214, condition C

## Classification

ECCN: EAR99

## Test Data

Gain, Flatness, Noise Figure, P1dB, VSWR, DC Power at +25°C