

# Medium Power Amplifier DM-MPMB-30-102

## Electrical Specifications (+25°C)

| PARAMETER           | UNITS                      |
|---------------------|----------------------------|
| Frequency           | 0.5 to 2 GHz               |
| Small Signal Gain   | 31 dB min                  |
| Flatness            | ±1.5 dB max                |
| Noise Figure        | 3.6 dB max                 |
| P1dB                | 26 dBm min                 |
| IP3                 | 36 dBm nom                 |
| VSWR (input/output) | 2.0:1 nom                  |
| DC Power            | +11 to 15+ VDC, 400 mA nom |
| Max Input Power     | +15 dBm CW                 |

## Mechanical Specifications

| PARAMETER           | UNITS                                     |
|---------------------|---|
| Size (L x W x H)    | 1.28" x 0.74" x 0.365"                    |
| Connectors (In/Out) | SMA (f)/SMA (f)                           |
| Sealing             | Hermetic                                  |
| Finish              | Grey Paint, Mounting surface<br>Ni finish |
| Marking             | Black per MIL-STD-130                     |
| Outline             | 001-0054                                  |

## 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,<br>condition C |

## Classification

ECCN: EAR99

## Test Data

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