

# Solid State Power Amplifier 500 to 2700 MHz, 100 Watts

## Model BME58278-100

### Overview

Model BME58278-100 is a Class AB linear amplifier, which operates over the full 500 to 2700 MHz frequency range with output power of 100 watts minimum into a 2:1 VSWR. The amplifier is very compact (8" x 6" x 1.8) and weighs <5 pounds.



### Features

- Solid State Design
- Wide Band Operation
- Compact & Light Weight
- Military Environment
- 90° Quad Combiners

### Performance Specifications

#### ELECTRICAL

- Frequency Range: 500 to 2700 MHz
- RF Output Power: 100 Watts (P3dB)
- RF Gain: 52.5 dB + 3.5 dB
- RF Input Overdrive: +20 dBm
- Input VSWR: 2:1 maximum
- Harmonic Rejection: -13 dBc
- Spurious Signals: -60 dBc
- Class of Operation: AB Linear
- DC Input: +18-36V (internal DC Reg.)
- DC Current: 15A typical
- PA Enable: <5  $\mu$ s
- Load VSWR: Infinite

#### ENVIRONMENTAL

- Temperature:
  - Operating: -40°C to +85° Mounting Base Temperature
  - Storage: -40°C to +85°C
- Altitude:
  - Operating: 30,000 feet
  - Non-Operating: 40,000 feet
- Shock: MIL-STD-810F Method 516.5
- Vibration: MIL-STD-810F Method 514.5
- Humidity: 95% without condensation
- Cooling: Baseplate

#### PHYSICAL

- Size: 8" x 6" x 1.8"
- Weight: 4 lbs.

### Power Systems Technology (PST)

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