

# Solid State Power Amplifier 20 to 1000 MHz, 150 Watts

## Model BME2719-150

### Overview

Model BM2719-150 is a highly efficient Class AB linear amplifier, which operates over the full 20 to 1000 MHz frequency range with output power of 150 watts into a Load VSWR of 2:1. This rugged amplifier was designed for reliable operation in harsh environments. The amplifier is very compact (6.67" x 6.61" x 1.61), operates from unregulated DC power and weighs only 4 pounds.



### Features

- Latest GaN Technology
- Efficiency > 30% Typical
- Reliable in Extreme Temp
- Built in Self-Protection
- Wide Band Operation
- 18-32VDC Input Range

### Specifications

#### ELECTRICAL

- Frequency Range: 20 to 1000 MHz
- RF Output Power: 150 Watts min.
- RF Output Power: 170 Watts Psat.
- RF Gain: 55 dB Min.
- RF Gain Flatness: +/- 3 dB Typical
- RF Input Overdrive: +10 dBm
- Modulation: CW/Pulse, AM/FM, Digital
- Input VSWR: 2:1 max
- Harmonics 2nd: -20 dBc
- Harmonics 3rd: -18 dBc
- Spurious Signals: -60 dBc
- Class of Operation: AB Linear
- PA Enable: 2  $\mu$ s Typical
- Load VSWR: 2:1 Full Power, Reduce >2:1
- RF Input: SMA Female
- RF Output: TNC Female
- DC Input: 18-32VDC, 650W max.

#### ENVIRONMENTAL

- Temperature:
  - Operating: -40°C to +85° Mounting Base Temperature
  - Storage: -40°C to +95°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: 6.67" x 6.61" x 1.61"
- Weight: 4.0 lbs. max

### Power Systems Technology (PST)

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