

Solid State Power Amplifier 100 to 2000 MHz, 10 Watts MODEL BME1829-10

Features:

- GaN Technology
- Wide Band Operation
- Compact & Light Weight
- Military Environment



PERFORMANCE SPECIFICATIONS

ELECTRICAL

- Frequency Range: 100 to 2000 MHz
- RF Output Power: 10 Watts
- RF Gain: 47 dB \pm 3.0 dB
- RF Input Overdrive: +10 dBm
- Input VSWR: 2:1 maximum
- Harmonic Rejection: -15 dBc
- Spurious Signals: -60 dBc
- Class of Operation: AB Linear
- DC Input: +28 VDC \pm 8V
- DC Current: 1.72A typical @ 28V
- PA Enable: <10 μ s
- Load VSWR: Infinite

ENVIRONMENTAL

- Temperature:
Operating: -40°C to +85° Base Plate 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: Conduction cooled

PHYSICAL

- Size: 4.0" x 2.5" x 1.35"
- Weight: < 1.0 lbs.

Model BM1829-10 is a Class AB linear amplifier, which operates over the full 100 to 2000 MHz frequency range; proving a minimum of 10 Watts over temperature and load VSWR variations. The amplifier is very compact (4.0" x 2.5" x 1.35") and weighs less than 1 pound. Operates between 20-36VDC for applications in Mounted, Dismounted and Airborne Systems.

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