

Solid State Power Amplifier

20-2500 MHz — Model BHED27258-200

Stellant PST is pleased to introduce a compact, efficient dual band 20-2500MHz solid state high power amplifier. This highly integrated design utilizes the latest GaN technology; which achieves one of the highest power density-to-footprint ratios of amplifier building blocks throughout the industry.



KEY FEATURES

- GaN Technology for Ultra Wideband Operation
20 - 1000 MHz, 125 W
1000 - 2500, 200W
- Compact Configuration
- Simultaneous Operation of Both Bands
- Integrated T/R Switch for Each Band

SPECIFICATIONS




Frequency Range	20-2500 MHz in two bands
RF Power Out (after T/R switches)	
Band 1 (20-1000 MHz)	125 Watts Typical
Band 2 (1000-2500 MHz)	200 Watts Typical
RF Input	0 dBm; +3dB Typical
RF Input Overdrive	
Class of Operation	
Modulation Format	Multi-tone/CW/AM/FM/SSB Pulse
VSWR	2.0:1 with 0.5 dB turndown 3.0:1 and higher with
Harmonic Rejection	< -13 dBc Typical
Spurious	< -60 dBc
AM Distortion (85% DOM)	10% max
T/R Isolation	50 dB
T/R Switching Speed	50µsec
Noise Power Output	
Transmit Mode	-86 dBm/Hz Typical
Receive Mode (NQ ON)	-150 dBm/Hz

Digital Display	Forward Power, Reflected Power, Fault Status, VSWR, Thermal Fault, PA Status, PS Status
Control Interface	RS-422, Ethernet
Local Indicators	Thermal Fault, T/R Status, Power On
Internal Protection	Load VSWR; Overdrive; Over Current; Hot Switch; Thermal Overload
Primary Power	110/220 VAC; 50/60 Hz
Power Consumption	1850 W
RF Connectors	
RF Input & Receive Ports	N Type Female
RF Output	N Type Female
Environmental	
Operating Temperature	-10° to +55°C
Operating Altitude	10,000 ft
Shock/Vibration	MIL-STD-810G
Size	5U high (8.75")
Weight	60 lbs

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