

# Solid State Power Amplifier 20 to 2500 MHz

## Model BHED27258-200

### Overview

Stellant PST (CPST) is pleased to introduce Model BHED27258-200, 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.



### Features

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

### Performance Specifications

• Frequency Range:	20 to 2500MHz in two bands	• Digital Display:	Forward Power, Reflected Power, Fault Status, VSWR, Thermal Fault, PA Status, PS Status
• RF Power Out (after T/R Switches):	Band 1 (20-1000MHz) 125 Watts Typical Band 2 (1000-2500MHz) 200 Watts Typical	• Control Interface:	RS-422, Ethernet
• RF Input:	0 dBm; +3dB Typical	• Local Indicators:	Thermal Fault, T/R Status, Power On
• RF input Overdrive:	8 dBm Max.	• Internal Protection:	Load VSWR; Overdrive: Over-Current; Hot Switch; Thermal Overload
• Class of Operation:	AB Linear	• Primary Power:	110/220VAC; 50/60Hz
• Modulation Format:	Multi-tone, CW, AM, FM, SSB Pulse	• Power Consumption:	1850W
• VSWR:	2.0:1 with 0.5dB turndown 3:0:1 and higher with appropriate turndown	• RF Connectors:	RF Input and receive Ports: N Type female RF Output: N Type female
• Harmonic Rejection:	<-13 dBc Typical	• Environmental:	
• Spurious:	<-60 dBc	• Operating Temperature:	-10° to +55°C
• AM Distortion (85% DOM):	10% max	• Operating Altitude:	10,000 feet
• T/R Isolation:	50dB	• Shock/Vibration:	MIL-STD-810G
• T/R Switching Speed:	50µsec	• Size:	5U high (8.75")
• Noise Power Output:		• Weight:	60 lbs.
• Transmit Mode:	-86dBm/Hz typical		
• Receive Mode (NQ ON):	-150dBm/Hz		

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