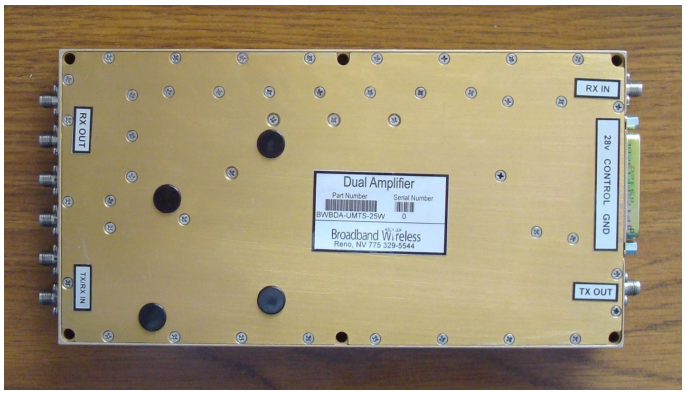
Dual Amplifier Capabilities

Amplifiers up to 320W and 80 dB gain



Product Description

Dual amplifiers play a crucial role in both defense and commercial communications platforms, enhancing signal strength and reliability across various applications. In defense, these amplifiers are integral to advanced radar systems, enabling simultaneous operation across multiple frequency bands, such as S-band and X-band, which is essential for tasks like surveillance and target tracking. In commercial settings, dual amplifiers facilitate robust communication links for applications ranging from satellite communications to mobile networks.

Typical Application

- Defense Systems
- GSM, CDMA, LTE
- Base Stations
- Repeaters
- Communications Networks

Features

- High Linearity
- GaN and LDMOS Technology
- Class D and Doherty designs
- Psat up to 320 Watts
- Thermal Management

Electrical Specifications (T_A = 25° C)

Description	UOM	Min	Typical	Max	Notes
Frequency	GHz	.002		6.00	customer to define frequency band
Small Signal Gain	dB			+80	customer defined
Gain Flatness	±dB		TBD		bandwidth dependent
Gain Variation over Temp	±dB			3	
Saturate Power (Psat)	W			320	customer defined
Max Input Power	dBm			10	
Input Dynamic Range	dB	-40		9	customer defined
Harmonics	dBc			-20	
Rise/Fall Time	nS		10		
Spurious Out	dBc			-60	
Input VSWR	:1			1.5	
Output VSWR	:1			1.5	
Voltage Range	VDC	12		48	
Current	mA			TBD	dependent on Psat and VDC

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