



Typical Application

- ▶ 2G, 3G, 4G, 5G
- GSM, CDMA, LTE
- Base Stations
- Repeaters
- ► Communications Networks

Electrical Specifications ($T_A = 25^{\circ}$ C)

Amplifiers up to 320W and 80 dB gain

Product Description

RF bidirectional amplifiers are critical in both 5G systems and defense communications, enabling efficient two-way signal transmission. They enhance the performance by boosting signals in both uplink and downlink paths, ensuring reliable connectivity. This capability is essential for supporting applications that demand high data rates and low latency. In defense communications, RF bidirectional amplifiers play a vital role in maintaining secure and robust communication channels, allowing for real-time data exchange between various military assets.

Features

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

UOM	Min	Typical	Max	Notes
GHz	.002		6.00	customer to define frequency band
dB			+80	customer defined
±dB		TBD		bandwidth dependent
±dB			3	
W			320	customer defined
dBm			10	
dB	-40		9	customer defined
dBc			-20	
nS		10		
dBc			-60	
:1			1.5	
:1			1.5	
VDC	12		48	
mA			TBD	dependent on Psat and VDC
	GHz dB ±dB W dBm dBc nS dBc :1 :1 :1	GHz .002 dB	GHz .002 dB TBD ±dB TBD ±dB 40 dBm 10 dBc 10 i1 12	GHz .002 6.00 dB +80 ±dB TBD ±dB 320 dBm 320 dBm 10 dBm 10 dB -40 9 dBc -20 nS 10 dBc -60 :1 1.5 YDC 12 48



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