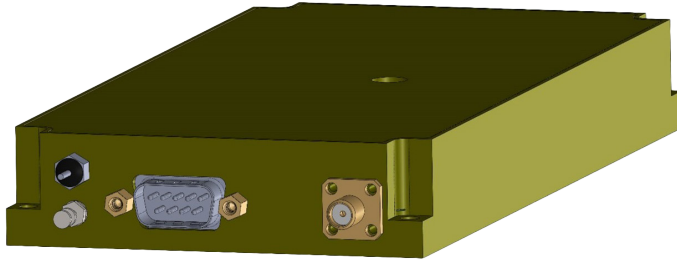


Amplifiers up to 320W and 80 dB gain



Product Description

UEC RF-Microwave RF filtered amplifiers are essential in both 5G systems and defense communications, providing enhanced signal integrity and performance. In 5G networks, these amplifiers help to eliminate unwanted noise and interference, ensuring that high-frequency signals maintain their clarity and strength over long distances. In defense communications, RF filtered amplifiers play a critical role in secure and reliable communication channels, filtering out extraneous signals that could compromise sensitive information.

Typical Application

- ▶ 2G, 3G, 4G, 5G
- ▶ 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 ($T_A = 25^\circ \text{C}$)

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