

MEC-Power 960-1215

900-1300MHz 200W Power Amplifier



Description

The Model 9601215-MEC-200 is a high power, class AB solid state amplifier which utilizes the latest GaN Technology to offer broadband performance from 960 to 1215MHz. MECPOWER ISO9001 quality management system assure consistent performance and highest reliability

Product Features

- 200W Output at Psat
- TX & RX Port with Circulator and Switch
- Suitable for Pulsed application (Max 30% Duty Cycle)
- Single Supply Operation: Nominally 28V
- Forward & Reverse Power Monitoring



Electrical Specifications @ +28.0VDC, 25°C, 50Ω System

Symbol	Parameter	Unit	Min.	Typ.	Max.
BW	Operating Frequency	MHz	960		1215
P _{SAT}	Power Output	Watt		200	
P _{1dB}	Pout @ 1dB Gain Compression Point	Watt		50	
G	Small Signal Gain @ 1110MHz	dB		58	
P _{IN}	Input Power	dBm	-8	-5	-3
ΔG _{SS}	Small Signal Gain Flatness	dB			±2.0
ΔG _P	Power Gain Flatness	dB			±1.0
S ₁₁	Input Return Loss	dB			-10
Spur	Spurious Signal	dBc		-70	-60
H	Harmonics @Pout=200W	dBc		-40	
V _{DC}	Operation Voltage	Volt	26.0	28.0	30.0

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Mechanical Specifications

Parameters	Value	Limit	Unit
Dimension (L × W × H)	233 x 130 x 28mm	-	mm
RF Connector Input / Output	SMA Female	-	-
DC Interface Connector	Micro-D 15Pin	-	-
Weight	1	Max	Kg
Cooling	External Heat-sink	-	-

Environmental Characteristics

Parameters	Specifications	Remark
Operating Baseplate Temperature	-30°C to +55°C	
Storage Temperature Range	-40°C to +85°C	

DC Interface (Micro-D 15 Pic)

Pin No	Pin Description	Specifications	Remark
1-7	VDD	+28VDC	
13-15,8	GND	GND	
9	TTL	TTL "0" = 0V or open TTL/CMOS "1" = 3.3-5V	
10	Reverse Power Monitor	RMS Detector Slope: 20mV/dB	
11	Forward Power Monitor	RMS Detector Slope: 20mV/dB	
12	Temp Monitor	Vout= 10mV/°C×Temp+500mV Temp=Case Temperature±5°C	

