

190-210 MHz RF Amplifier

- Linear Power: 60 watts
- Voltage = 28 vdc
- Current = 4.8 amp
- Gain: 49 dB

Description:

190-210 MHz CW / Pulse amplifier.



Updated 8/1/12

ELECTRICAL SPECIFICATION @ VDD= +28VDC: Temp.= 25, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	190		210	MHz
Power Output CW Sat.	Psat	90	100		Watts
Power Output @ 1 dB Compression Point	P1dB		75		Watts
Gain @ 1dB Compression Point	G1dB	47	49		dB
Input Power for Rated Pout	Pin		-1		
Small Signal Gain Flatness	ΔG			±0.5	dB
VVA Adjustment Range	VVA		35		dB
Input Return Loss	S11		-25	-15	dB
Noise Figure attenuator at min	NF		10		dB
Harmonics @ 60watts, 2 nd /3 rd	H		-43/-47	-30/-30	dBc
3 rd Order Intercept Point, 30dBm/tone, 1MHz	IP3		+54		dBm
Spurious Signals	Spur		-70	-60	dBc
Operating Voltage	Vdc	26	28	30	Volt
Quiescent Current	Idq		1.8		Amp
Operating Current @ 60watts	Idd		4.8	6	Amp

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimensions	6.4 x 3.4 x 1.0	Max	Inch
RF Connectors IN/OUT	SMA, Female	-	-
DC Connectors	Dsub 9-Pin, male, filtered	-	-
Cooling	External Heatsink (not included)		
Weight	16	Max	oz

PROTECTIONS

Thermal Shutdown	85°C	Typ
Input Overdrive	+10 dBm Max	Max
Load VSWR	Infinite to 60watts Output	Max
Reverse Polarity Protection	Included	-

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Units
Operating Case Temperature	Tc	0°C		+85°C	°C
Storage Temperature	Tstg	-40°C		+100°C	°C
Relative humidity non-condensation	RH	95			%

INTERFACE CONNECTOR, Dsub 9 pin

Pin #	Description	Specifications
1	N/C	N/C
2	Current	Analog voltage relative to Modules Current 200mv/Amp
3	Temperature Sense	Analog voltage relative to Modules Temperature 10mv/°C+500mv
4	VVA	Continuous Analog 0-10vdc, Max Gain = 0v, Min Gain = 10v
5	Shutdown	Amplifier Enable TTL "low" or open, Disable TTL "High"
6	VDD	+28vdc ±2v
7	VDD	+28vdc ±2v
8	GND	Ground
9	GND	Ground

HOUSING OUTLINE:

