

**ELECTRICAL SPECIFICATIONS @ +32 VDC, 25°C, 50 Ω System**

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	80		1000	MHz
Output Power @ P <sub>SAT</sub>	P <sub>SAT</sub>	100 +100			Watt
Output Power @ P <sub>1dB</sub>	P <sub>1dB</sub>		50		Watt
Input Power for Rated P <sub>OUT</sub>	P <sub>IN</sub>		0		dBm
Power Gain	PG		50		dB
Small Signal Gain Flatness	ΔG			±1.5	dB
Input Return Loss	S <sub>11</sub>			-10	dB
Harmonics @ P <sub>out</sub> = 100W	2 <sup>nd</sup>	H		-20	dBc
	3 <sup>rd</sup>			-16	dBc
Third Order Intercept Point 2-Tones @ 41dBm/Tone, Δ = 100KHz	IMD		-18		dBc
	IP3		50		dBm
Current Consumption @ 100W	I <sub>DD</sub>			25	A
Spurious Signals	Spur		-70		dBc
Operating Voltage	V	31	32	33	

**ENVIRONMENTAL CHARACTERISTICS**

Parameter	Symbol	Min	Typ	Max	Unit	Limits
Operating Case Temperature	T <sub>c</sub>	0		+50	°C	
Storage Temperature	T <sub>stg</sub>	-40		+85	°C	
Relative humidity (non-condensing)	RH			95	%	

**LIMITS**

Parameter	Value	Limits
Input Overdrive	+5 dBm	Max
Thermal Overload	Graceful degradation @ Shutdown 85°C	Max

**MECHANICAL SPECIFICATIONS**

Parameter	Value	Units	Limits
Dimensions	141 x 145 x 28	mm	Max
Weight	1.5	lb.	Max
RF Connectors In/Out	SMA female		
DC / Control Connector	D-Sub, Hybrid 7W2, Male		
Cooling	External Heatsink		

**DC CONNECTOR- D-Sub, Hybrid 7W2P, Male**

Pin #	Description	Specifications
1	N.C	
2	Current Monitor	Analog voltage relative to I <sub>D</sub> @ 25 mV/100 mA
3	Temperature Sense	Analog voltage relative to Module's Temperature @ 10 mV/°C + 500 mV
4	N.C	
5	Shutdown	Amplifier disable: TTL "High" (Internally Pulled-Low)
A1	VDD	+32 V <sub>DC</sub> to ±1 V
A2	GND	Ground

**Outline Drawing**