

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

| Parameter | Symbol | Min | Typ | Max | Unit |
|---|------------------|-----|------|------|------|
| Operating Frequency | BW | 20 | | 1000 | MHz |
| Output Power @ P _{SAT} | P _{SAT} | 100 | | | W |
| Input power for rated P _{SAT} | P _{in} | | 0 | | dBm |
| Power Gain | G _p | | 50 | | dB |
| Power Gain Flatness | ΔG | | ±1.5 | | dB |
| Input Return loss | S ₁₁ | | -10 | | dB |
| Harmonics @ P _{out} = 100W | 2 nd | | -20 | | dBc |
| | 3 rd | | -16 | | dBc |
| Third Order Intercept Point 2-Tones @ 44dBm/Tone, Δ = 100KHz | IP3 | | 53 | | dBm |
| Current Consumption @ 100W | I _{DD} | | 10 | | Amp |
| Spurious Signals | Spur | | -70 | | dBc |
| Operating Voltage | V _{DC} | | 32 | | Volt |

ENVIRONMENTAL CHARACTERISTICS

| Parameter | Symbol | Min | Typ | Max | Unit | Limits |
|------------------------------------|------------------|-----|-----|-----|------|--------|
| Operating Case Temperature | T _c | -10 | | +65 | °C | |
| Storage Temperature | T _{stg} | -30 | | +85 | °C | |
| Relative humidity (non-condensing) | RH | | | 95 | % | |

LIMITS

| Parameter | Value | Limits |
|-------------------------------------|----------------|--------|
| Input RF drive level without damage | +5dBm | Max |
| Thermal Overload | Shutdown @85°C | Max |

MECHANICAL SPECIFICATIONS

| Parameter | Value | Units | Limits |
|----------------------|--|-------|--------|
| Dimensions | 177.1 x 95 x 30 | mm | Max |
| Weight | 1.5 | lb | Typ |
| RF Connectors In/Out | Input : SMA (Female) / Output : SMA (Female) | | |
| DC / Shutdown | D-Sub, Hybrid 7W2 | | |
| Cooling | External Heatsink | | |

DC CONNECTOR- D-Sub, 9Pin, Male

| Pin # | Description | Specifications |
|-------|------------------------|---|
| 1 | N.C | |
| 2 | Current Monitor | Analog voltage relative to IDD @ 50mV/100mA |
| 3 | Temp Monitor | Analog voltage relative to Module's Temperature @ 10mV/°C + 500mV |
| 4 | N.C | |
| 5 | Mute (Enable/ Disable) | Enable: TTL "Low" Disable: TTL "High" |
| A1 | VDD | +32VDC to ±1VDC |
| A2 | GND | Ground |

