

M2425GP600 2.4-2.5G 600W

ELECTRICAL SPECIFICATIONS @ +28 VDC, 25°C, 50 Ω System

| Parameter | Symbol | Min | Typ | Max | Unit |
|---|-----------------------------------|------|------|------|------|
| Operating Frequency | BW | 2400 | | 2500 | MHz |
| Power Output CW | P _{SAT} | 600 | | | Watt |
| Output Power @ 1dB G.C.P | P _{1dB} | | 400 | | Watt |
| Small Signal gain | G _{SS} | 60 | | | dB |
| Input Power for Rated Pout | P _{IN} | | 0 | | dBm |
| Gain Flatness @ rated output power | ΔG _P | | ±1.0 | | dB |
| Input Return Loss | S ₁₁ | | | -10 | dB |
| Noise Figure | NF | | | 15 | dB |
| Third Order Intercept Point @36dBm per tone | IP ₃ | | 66 | | dBm |
| Harmonics @ 600W | H | | -20 | | dBc |
| Spurious Signals@ 600W | Spur | | -70 | -60 | dBc |
| Operating Voltage | VDC | 26 | 28 | 30 | Volt |
| Current Consumption @ 600W | IDD | | 70 | | Amp |
| Quiescent Current | IDQ | | 4 | | Amp |
| Standby Current Consumption @ Shutdown | I _{SD} | | 300 | | mA |
| Switching Time, 1KHz TTL, P _{OUT} = 100W | T _{ON} /T _{OFF} | | | 5.0 | uSec |

ENVIRONMENTAL CHARACTERISTICS

| Parameter | Symbol | Min | Typ | Max | Unit | Limits |
|------------------------------------|------------------|--------|----------|-----|------|--------|
| Operating Case Temperature | T _c | -20 | | +80 | °C | |
| Storage Temperature | T _{stg} | -40 | | +85 | °C | |
| Relative humidity w/o condensation | RH | 95 | | | % | |
| Altitude | ALT | 10,000 | 30,000 | | Feet | |
| Shock & Vibration | SH / VI | | Airborne | | | |

LIMITS

| Parameter | Value | Limits |
|--------------------------------|---|--------|
| Input Overdrive | +10dBm | Max |
| Load VSWR @ rated output power | 10:1 @ all load phase @ 600W; ∞ @ all Phase @ 500W and below | Nom |
| Thermal Overload | 85°C | Min |

MECHANICAL SPECIFICATIONS

| Parameter | Value | Units | Limits |
|------------------------|------------------------------|-------|--------|
| Dimensions L x W x H | 9.0x12.0x1.3 | Inch | Max |
| Weight | 5.0 | lb. | Max |
| RF Connectors In/Out | SMA(Female) / Type N(Female) | | |
| DC / Control Connector | D-Sub, Hybrid 9 Pins | | |
| Cooling | External Heatsink | | |

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DC CONNECTOR- - D-Sub, 9W4 Pin

| Pin # | Description | Specifications |
|-------|-------------------|--|
| 1 | N.C | Reserved |
| 2 | Current Monitor | Analog voltage relative to ID @ 5mV/100mA |
| 3 | Temperature Sense | Analog voltage relative to Module's Temperature @ 10mV/ °C |
| 4 | VVA | Controlled via Analog 0~5V Slope : 7.0±2.0dB/V Attenuation Range : 3~30dB Response Time : <10usec Operating Current into the Pin : <5mA Internally pull-up (maximum gain when opened) |
| 5 | Shutdown | Enable: TTL "Low" (Logic 0) or "Open" Disable: TTL "High" (Logic 1) |
| A1,A2 | VDD | +28VDC to 2VDC |
| A3,A4 | GND | Ground |

Outline Drawing TBD

