



Part Number DM-HPMB-10-101

GaN Power Amplifier

Rev B
03/22/2016

Electrical Specifications (+25°C):

| | |
|-----------------------|-------------------------------------|
| Frequency: | 2 to 18 GHz |
| Small Signal Gain: | 45 dB min |
| Gain Var. Over Temp | -0.05 dB/°C typical |
| Psat @ -8dBm Input: | 2-12 GHz: 39; 13-18 GHz: 38 dBm min |
| Psat @ -8dBm Input: | 10 W typical |
| Noise Figure: | 7 dB max |
| DC Power: | 32 VDC, 2.5 A nom at Psat |
| PAE: | 15 % typical |
| VSWR (Input/Output): | 2.0:1/2.0:1 nom |
| Harmonics: | -15 dBc typical @ Psat |
| Spurious: | -70 dBc typical |
| Input Power Handling: | 15 dBm max |
| Mismatch Handling: | 5.0:1 max |
| Operation: | CW |

Features:

| | |
|---------------------|---|
| DC On/Off: | 1µs; TTL Logic-Low "0V": ON; High "5V": OFF |
| Over Temp Shutdown: | at +90°C |
| Current Monitoring: | Included |

Mechanical Specifications:

| | |
|----------------------|--|
| Size (L x W x H): | 2.5" x 2.75" x 0.45" |
| Connectors (In/Out): | SMA (f)/SMA (f) |
| Sealing: | Hermetic |
| Finish: | Grey Paint, Mounting surface Ni finish |
| Marking: | Black per MIL-STD-130 |
| Cooling: | External heatsink |
| Outline: | 001-0013 |

Classification:

| | |
|-------|------|
| ECCN: | ITAR |
|-------|------|



Delta Microwave

300 Del Norte Blvd.
Oxnard, CA. 93030

Phone: 805.751.1100
Fax: 805.240.9544

email: sales@deltamicrowave.com
www.deltamicrowave.com

Delta Microwave's Quality Management System has been assessed by NSF-ISR and found to be in conformance with AS9100:2009, Rev. C. Delta Microwave reserves the right to change specifications without notice. Please verify specification revision upon order placement.



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Environmental Specifications (by design):

| | |
|------------------------|---|
| Operating Temperature: | -40 to +85°C |
| Storage Temperature: | -54 to +85°C |
| Relative Humidity: | IAW MIL-STD-810F, up to 95% |
| Altitude: | up to 30,000 ft |
| Vibration: | IAW MIL-STD-810F, Method 514.5, Table 514.5-I, Categories 12, 13, 14, 20 |
| Shock: | IAW MIL-STD-202G method 214, condition C |
| Salt Fog: | 5%, +35°C 96 hrs IAW MIL-STD- 810G method |
| Fungus: | IAW MIL-STD-810G method 508.6 |

Test Data:

Gain, Psat, VSWR, DC Power at +25°C



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