



Part Number DM-HPL-20-101

Power Amplifier

Rev 2
8/1/13

Electrical Specifications (-40 to +85°C):

Frequency	1.625 to 1.85 GHz
Power Gain	16.8 dB min
RF Input Power	28 to 34 dBm
Psat	+44.8 dBm min (30 Watts min)
VSWR	2.0:1 max
DC Power	110 Watts max (+28 VDC regulated)
PAE	30% typ
Harmonics	-60 dBc max
Spurious	-70 dBc max
Noise Power Density	-135 dBm / Hz max
Mismatch Handling	5.0:1 max
Operation	CW

Features:

DC On/Off	1ms, TTL Logic-Low "0V": ON; High "5V": Off
Over-Temp Shutdown	at +90°C
Over-Current Shutdown	included
Load Mismatch Shutdown	included
Internal BPF	-40 dBc over 2.2-2.5 GHz

Mechanical Specifications:

Size (L x W x H)	4 x 4 x 1 inches
RF Connectors (In/Out)	SMA female
DC Connector	15-pin micro D Glenair M83513/03-BN
Finish	Grey Paint, Mounting surface Ni finish
Marking	Black per MIL-STD-130
Cooling	External heatsink (not included)
Weight	1 lbs. max

Classification:

ECCN	ITAR (Specification Controlled)
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Delta Microwave

300 Del Norte Blvd.
Oxnard, CA. 93030

Phone: 805.751.1100
Fax: 805.240.9544

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



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Environmental Specifications (by design):

Operating Temperature	-40 to +85°C (mounting surface)
Storage Temperature	-54 to +85°C
Relative Humidity	IAW MIL-STD-810F, method 507.4, 95%
Altitude	up to 50,000 ft
Vibration	IAW MIL-STD-810F, Method 514.5, 4.12 g RMS 10 – 2000 Hz, procedure I
Shock	20 g terminal peak saw tooth, 11 milliseconds or equivalent
Salt Fog	IAW MIL-STD-810-F, Method 509.4 5% NaCl, ph-factor 6.5 -7.2
Fungus	IAW MIL-STD-810F, method 508.5

Test Data:

Gain, Output Power, VSWR, Harmonics, Spurious, DC Power at +25°C



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