



# Part Number DM-HPX-100-105

## GaN Power Amplifier

Rev 1  
5/14/2013

### Electrical Specifications (+25°C):

Frequency:	9.75 to 10.25 GHz
Small Signal Gain:	50 dB min
Gain Var. Over Temp	-0.06 dB/°C typical
Psat @ 5dBm Input:	49.5 dBm min
Psat @ 5dBm Input:	100 W typical
Noise Figure:	8 dB max
DC Power:	28 VDC, 17 A nom at Psat
PAE:	30 % typical VSWR
(Input/Output):	2.0:1/1.5:1 nom
Harmonics:	-20 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 +70°C
Current Monitoring:	Included
Dual Directional couplers for forward & reverse power	

### Mechanical Specifications:

Size (L x W x H):	7.38 x 4.3 x 1.65 inches
Connectors (In/Out):	SMA (f)/TNC
Sealing:	Epoxy
Finish:	Ni finish
Marking:	Black per MIL-STD-130
Cooling:	External heatsink
Outline:	001-0047

### Classification:

ECCN:	3A001.b.4
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Registered to AS9100 (with ISO 9001)

## 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:	-20 to +60°C
Storage Temperature:	-54 to +85°C
Relative Humidity:	up to 90%
Altitude:	up to 10,000 ft
Vibration:	Lab equipment
Shock:	N/A
Salt Fog:	N/A
Fungus:	N/A

### Test Data:

Gain, Psat, VSWR, DC Power at +25°C



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