



# Part Number DM-HPSC-50-102

## GaN Power Amplifier

Rev A  
3/28/2016

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

Frequency:	2 to 6 GHz
Small Signal Gain:	55 dB min
Gain Flatness:	2 dB min
Gain Var. Over Temp	-0.03 dB/°C typical
Psat @ 0dBm Input:	46 dBm min
Psat @ 0dBm Input:	50 W typical
Noise Figure:	8 dB max
DC Power:	28 VDC, 6.5 A nom at Psat
PAE:	30 % 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:	No
Current Monitoring:	No

### Mechanical Specifications:

Size (L x W x H):	2.5 x 2.75 x 0.45 inches
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



## Delta Microwave

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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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## GaN Power Amplifier

Rev A  
3/28/2016

### Classification:

ECCN: EAR99

### 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,  
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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