

GaN Power Amplifier

DM-HPL-1K-102



Specifications are subject to change without notice

Electrical Specifications (+25°C)

Parameter	Value
Frequency	1.2 to 1.4 GHz
Small Signal Gain	60 dB min
Psat @ 0dBm Input	61.8 dBm min
Psat @ 0dBm Input	1600 W typical
Noise Figure	8 dB max
DC Power	50 VDC, 7.5 A nom at Psat
PAE	40 % typical
VSWR (Input/Output)	1.5:1/1.5:1 nom
Harmonics	-40 dBc typical @ Psat
Spurious	-70 dBc typical
Input Power Handling	10 dBm max
Mismatch Handling	3.0:1 max
Operation	Pulse, 100 μ s, 10% d.c.

Features

DC On/Off 1 μ s; TTL Logic-Low "0V": ON;
 High "5V": OFF
 OverTemp Shutdown Included
 Current Monitoring Included
 Internal isolator at output Included

Mechanical Specifications

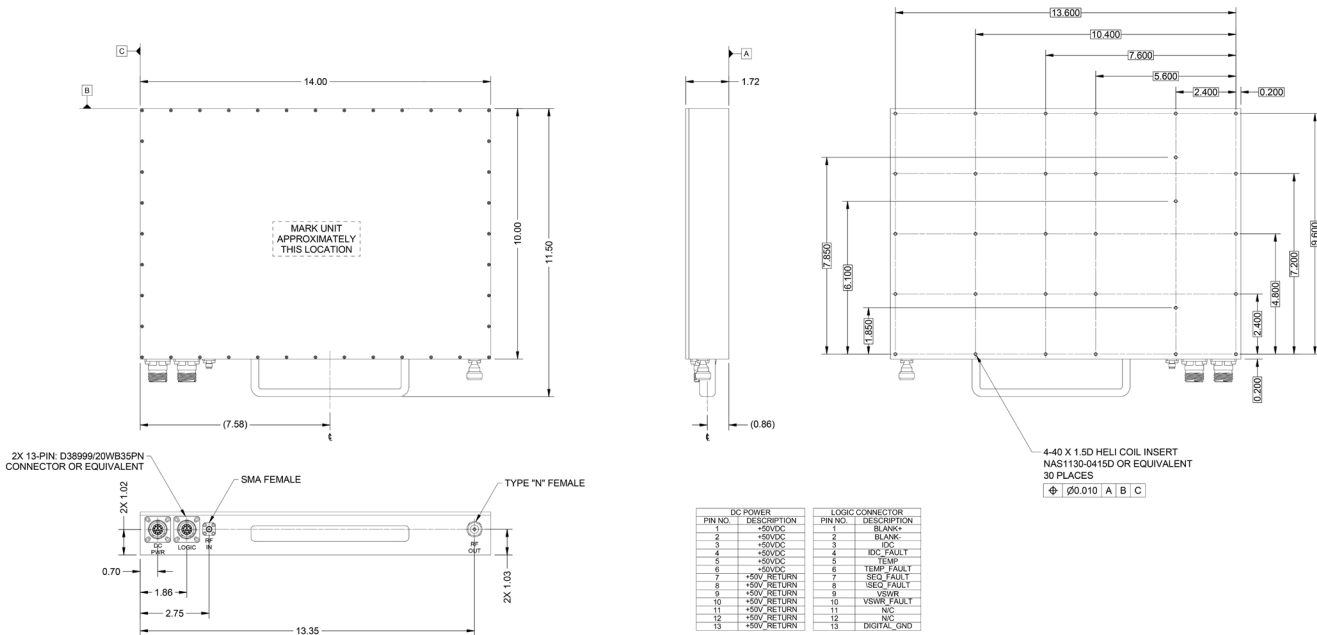
Parameter	Value
Size (L x W x H)	14 x 10 x 1.72 inches
Connectors (In/Out)	SMA (f)/N (f)
Sealing	Weather sealed
Finish	NICKEL PLATE PER
AMS-QQ-N-290, CLASS 1.	
Marking	Label
Cooling	External Heatsink

Environmental Specifications (by design)

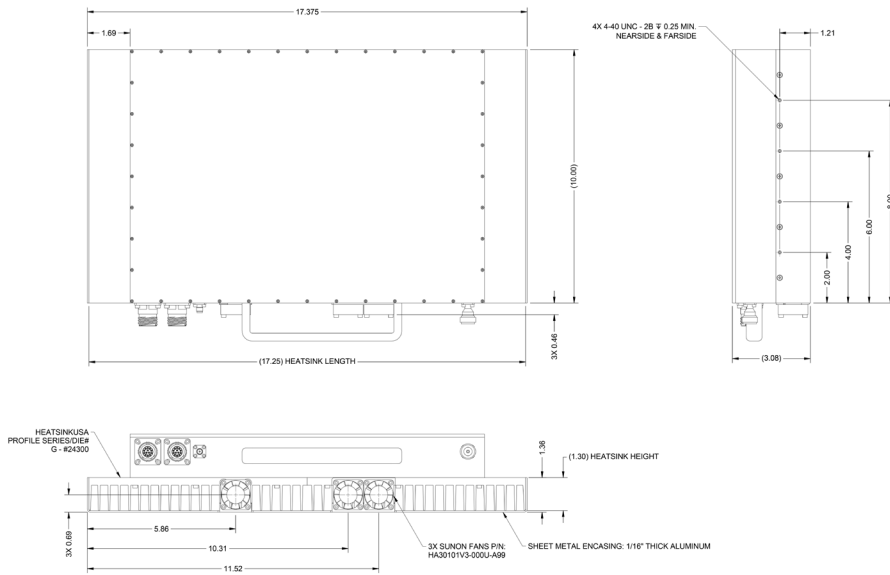
Parameter	Value
Operating Temperature	0°C to +60°C
Storage Temperature	-20°C to +85°C
Relative Humidity	IAW MIL-STD-810F, up to 95%
Altitude	up to 10,000 ft



Outline Drawing



With heatsink



Need More Help? Need a Variant of This Product?

Contact Mercury's RF & Microwave engineering team at rf.microwave@rcy.com or visit www.rcy.com/rf for a detailed listing of RF and Microwave products.