

GaN Power Amplifier

DM-HPL-10-102



Specifications are subject to change without notice

Electrical Specifications (+25°C)

Parameter	Value
Frequency	1.625 to 1.85 GHz
Small Signal Gain	30 dB min
Gain Var. Over Temp	-0.03 dB/°C typical
Psat @ 10dBm Input	40 dBm min
Psat @ 10dBm Input	15 W typical
Noise Figure	8 dB max
DC Power	28 VDC, 1.7 A nom at Psat
PAE	35 % typical
VSWR (Input/Output)	2.0:1/2.0:1 nom
Harmonics	-60 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
 OverTemp Shutdown at +90°C
 Current Monitoring Included
 Integrated Filter -40dBc 2.2-2.5 GHz

Mechanical Specifications

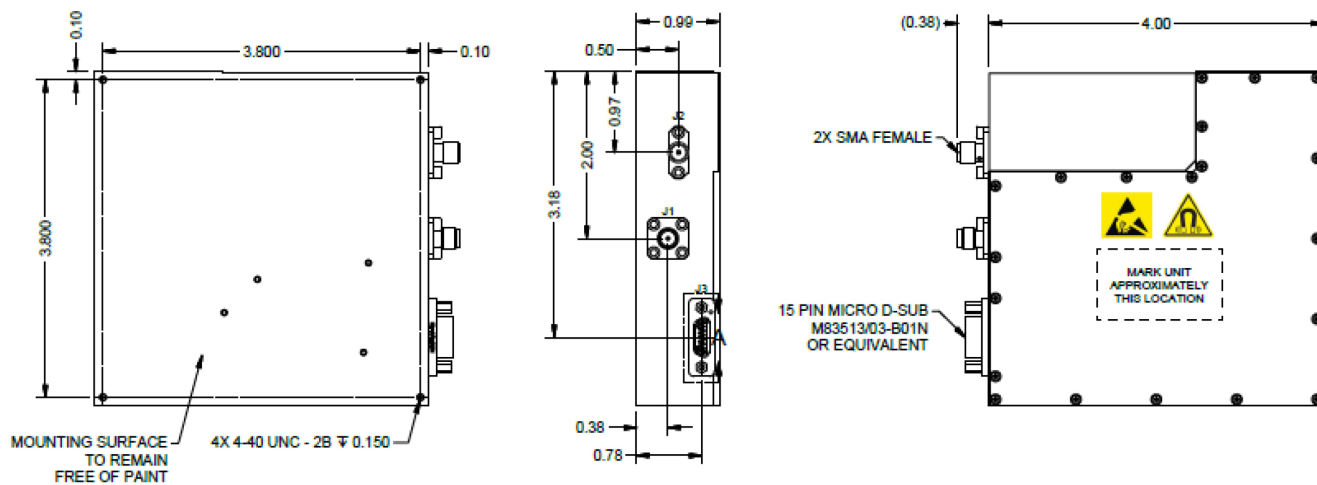
Parameter	Value
Size (L x W x H)	4" x 4" x 1"
Connectors (In/Out)	SMA (f)/SMA (f)
Sealing	Hermetic
Finish	Grey Paint, Mounting surface Ni finish
Marking	Black per MIL-STD-130
Cooling	External heatsink

Environmental Specifications (by design)

Parameter	Value
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



Outline Drawing



All dimensions are in inches

Need More Help? Need a Variant of This Product?

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