

# High-Power Pulsed Amplifier

## DM-HPX-140-101



Specifications are subject to change without notice

### Electrical Specifications (+25°C)

Parameter	Value
Frequency	7.8 to 9.6 GHz
Small Signal Gain	50 dB min
Gain Var. OverTemp	-0.05 dB/°C typical
Psat @ 5dBm Input	51 dBm min
Psat @ 5dBm Input	140 W typical
Noise Figure	8 dB max
DC Power	40 VDC, 1.2 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	Pulse, 100 $\mu$ s, 10% d.c.

### Mechanical Specifications

Parameter	Value
Size (L x W x H)	3.6 x 3.4 x 0.67 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

### Features

Parameter	Value
DC On/Off	1 $\mu$ s; TTL Logic-Low "0V": ON; High "5V": OFF
OverTemp Shutdown	at +90°C
Current Monitoring	Included

### 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, Categories 12, 13, 14, 20
Shock	IAW MIL-STD-202G method 214, condition C
Salt Fog	5%, +35°C 96 hrs IAW MIL-STD- 810G method 509.5
Fungus	IAW MIL-STD-810G method 508.6

### Need More Help? Need a Variant of This Product?

Contact Mercury's RF & Microwave engineering team at [rf.microwave@mrcy.com](mailto:rf.microwave@mrcy.com) or visit [www.mrcy.com/rf](http://www.mrcy.com/rf) for a detailed listing of RF and Microwave products.



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