

High-Power CW Amplifier

DM-HPMB-10-103



Specifications are subject to change without notice

Electrical Specifications (+25°C)

Parameter	Value
Frequency	0.1 to 6 GHz
Small Signal Gain	55 dB min
Gain Var. OverTemp	-0.05 dB/°C typical
Psat @ -10dBm Input	39 dBm min
Psat @ -10dBm Input	10 W typical
Noise Figure	10 dB max
DC Power	32 VDC, 2.4 A nom at Psat
PAE	20 % typical
VSWR (Input/Output)	2.2:1/4.0:1 nom
Harmonics	-15 dBc typical @ Psat
Spurious	-70 dBc typical
Input Power Handling	20 dBm max
Mismatch Handling	5.0:1 max
Operation	CW

Mechanical Specifications

Parameter	Value
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

Features

Parameter	Value
DC On/Off	1µs; 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	MIL-STD-810F, Method 514.5, T, Categories 12, 14, 20
Shock	MIL-STD-202G method 214, condition C
Salt Fog	MIL-STD- 810G method 509.5, 5%, 35C 96 hrs
Fungus	MIL-STD-810G method 508.6



All dimensions are in inches