

High-Power CW Amplifier

DM-HPMB-25-102



Specifications are subject to change without notice

Electrical Specifications (+25°C)

Parameter	Value
Frequency	0.5 to 6 GHz
Small Signal Gain	50 dB min
Gain Var. Over Tem	-0.05 dB/°C typical
Psat @ 0dBm Input	43 dBm min
Psat @ 0dBm Input	25 W typical
Noise Figure	4 dB max
DC Power	50 VDC, 2.3 A nom at Psat
PAE	20 % typical
VSWR (Input/Output)	2.0:1/4.0:1 nom
Harmonics	-15 dBc typical @ Psat
Spurious	-70 dBc typical
Input Power Handling	12 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 +70°C
Current Monitoring	Included

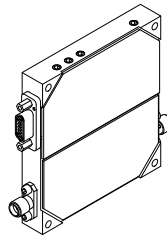
Environmental Specifications (by design)

Parameter	Value
Operating Temperature	-40 to +60°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
Fungus	IAW MIL-STD-810G method 508.6

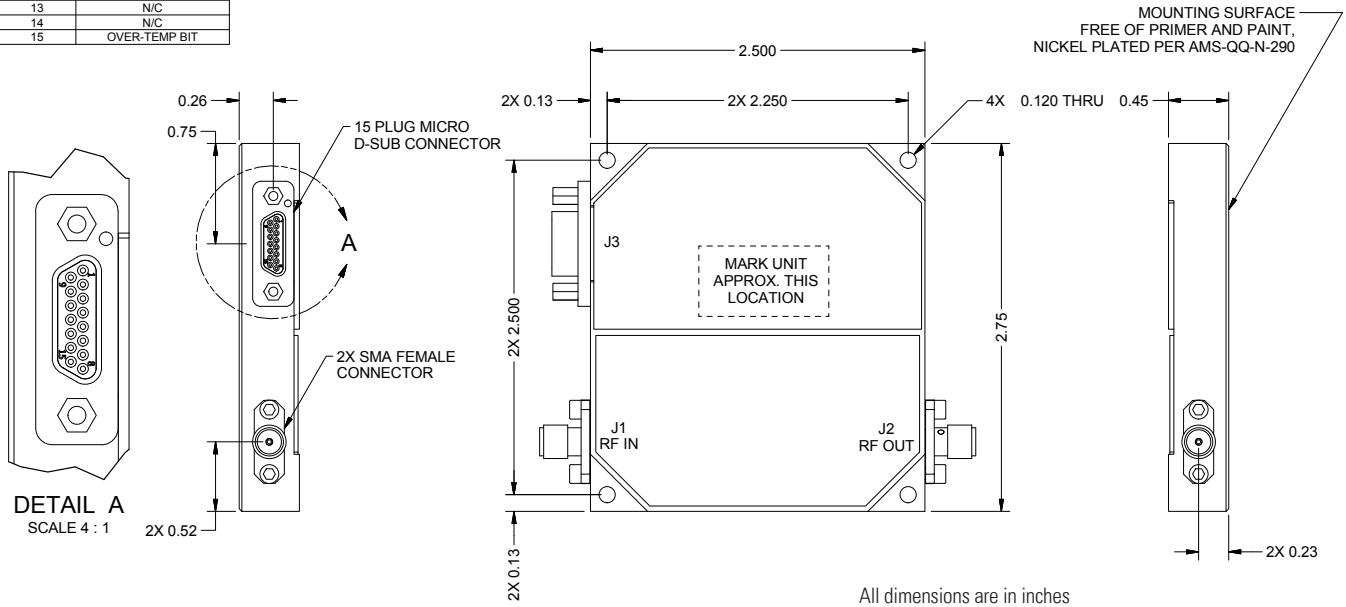


Outline Drawing

PIN #	DESCRIPTION
1	+50V
2	+50V
3	GND
4	GND
5	N/C
6	N/C
7	OVER-CURRENT BIT
8	BLANKING TTL
9	+50V
10	+50V
11	GND
12	GND
13	N/C
14	N/C
15	OVER-TEMP BIT



ISO VIEW



All dimensions are in inches

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