

High-Power CW Amplifier

DM-HPKU-30-102



Specifications are subject to change without notice

Electrical Specifications (+25°C)

Parameter	Value
Frequency	14.85 to 15.35 GHz
Small Signal Gain	45 dB min
Gain Var. OverTemp	-0.05 dB/°C typical
Psat @ 5dBm Input	44 dBm min
Psat @ -5dBm Input	16 W typical
P1dB	41 dBm min
Noise Figure	7 dB max
DC Power	28 VDC, 3.5 A nom at Psat
PAE	20 % 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	CW
AM-PM Conversion	4°/dB up to 40dBm max

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

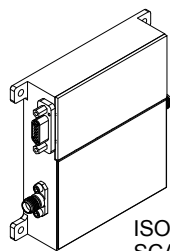
Environmental Specifications (by design)

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	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

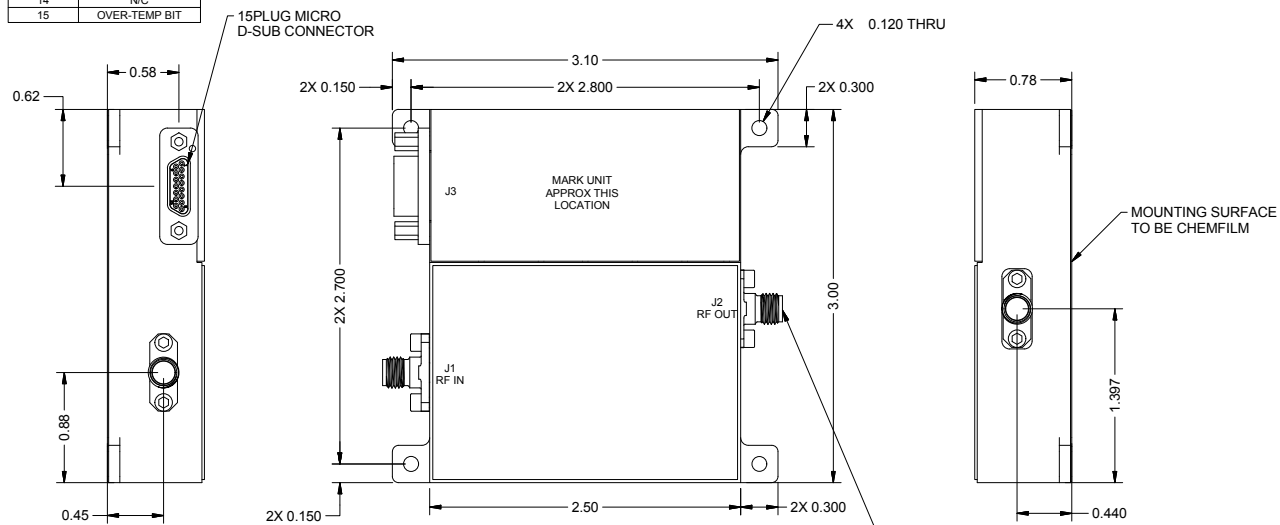


Outline Drawing

J3 CONNECTOR PIN OUT	
PIN #	DESCRIPTION
1	+20V
2	+20V
3	GND
4	GND
5	N/C
6	N/C
7	OVER-CURRENT BIT
8	BLANKING TTL
9	+20V
10	+20V
11	GND
12	GND
13	N/C
14	N/C
15	OVER-TEMP BIT



ISO VIEW
SCALE 1 : 1



All dimensions are in inches

Need More Help? Need a Variant of This Product?

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Corporate Headquarters

50 Minuteman Road • Andover, MA 01810 USA • (978) 967-1401 • (866) 627-6951 • Fax (978) 256-3599 • www.rcy.com