

Hi-Rel Space SSPA DM-HPS-50-102-S



Specifications are subject to change without notice

Specifications (-20 to +50°C)

Parameter	Value
Frequency	2.2 to 2.3 GHz
Small Signal Gain	50 dB min
Gain Flatness over freq.	±0.4 dB max
Output Power P3dB	+46 dBm min (40W min), 47 dBm typ (50W typ)
Input VSWR	1.8:1 max
Output VSWR	1.5:1 max
AM-PM Conversion	5°/dB max
Spurious	-70 dBc max
Input Power Handling	+10 dBm max
Voltage	22 to 37 VDC
DC Power Consumption	170 max – On Mode; 5W max – Off Mode
Operation	CW
Operating Temperature	-20 to +80°C
Relative humidity	up to 75% (non-condensing)
Vibration	9.8 Grms

Environmental Specifications (by design)

Parameter	Value
Operating Temperature	-20 to +80°C
Relative humidity	up to 75% (non-condensing)
Vibration	9.8 Grms

Features

EPC	Included
EMI Filter	Included
DC On/Off	TTL Logic-Low "0V": ON; High "5V": Off
Temp Sensor	Included
Over-Temp Shutdown	set at +85°C
Over-Current Shutdown	Included
ALC	Optional (Fixed Pout over 0-10dBm input range)

Mechanical Specifications

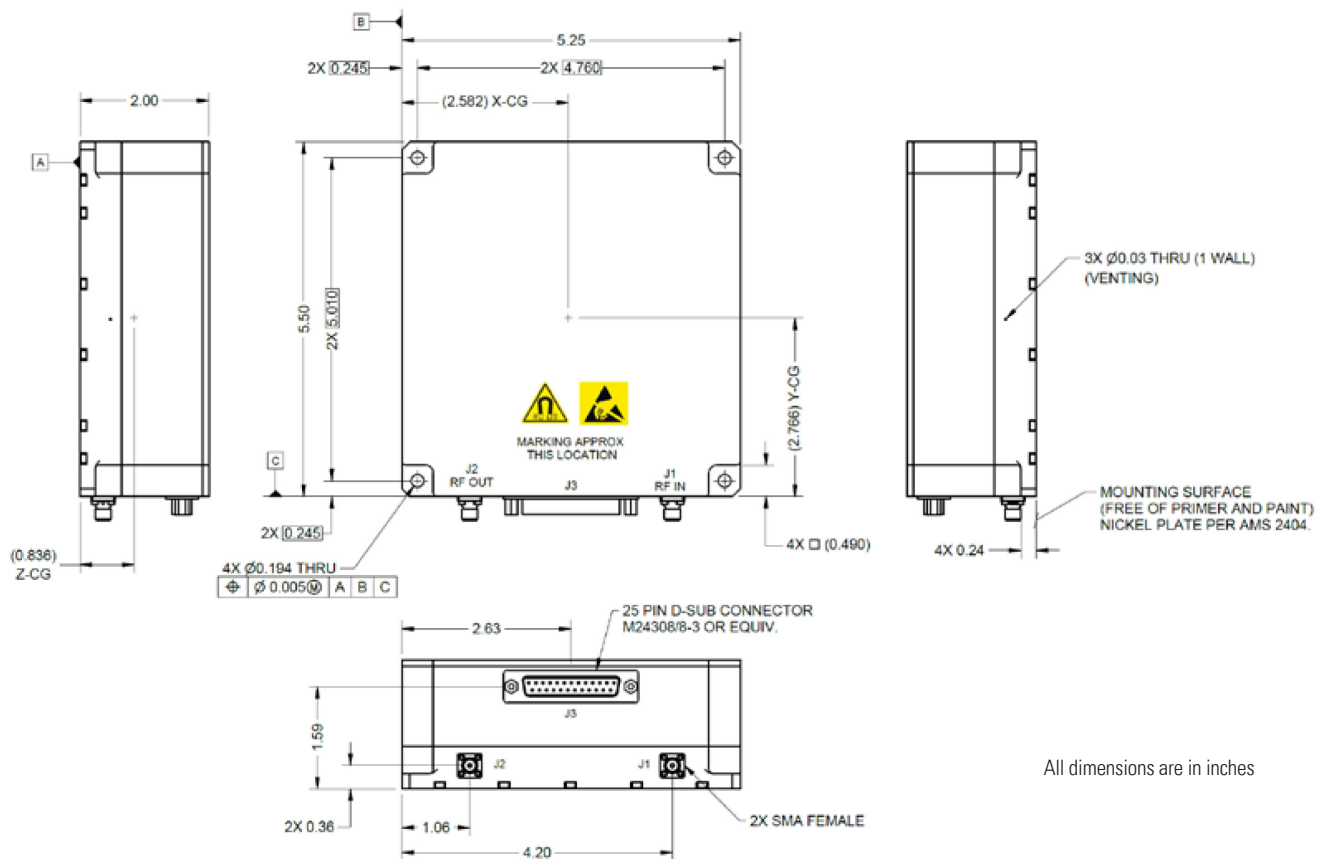
Parameter	Value
Size (L x W x H)	5.5" x 5.25" x 1.7" inches
Weight	2.25 lbs.
RF Connectors	Input SMA (f), SMA (f)
DC Connector	25-pin micro D
Finish	Black Paint
Cooling	External heatsink required

Radiation Hardness Assurance (by design)

Parameter	Value
TID	30krad (Si)
SEE	36 MeV-cm ² /mg



Outline Drawing



All dimensions are in inches

Need More Help? Need a Variant of This Product?

Contact Mercury's RF & Microwave engineering team at rf.microwave@rcy.com or visit www.rcy.com/rf for a detailed listing of RF and Microwave products.



Corporate Headquarters

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