



Part Number DM-HPS-50-102-S

Hi-Rel Space SSPA

Rev 2

Electrical Specifications (-20 to +50°C):

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 Operation	185W max – On Mode; 5W max – Off Mode CW

Features:

DC-DC Converter	Included
EMI Filter	Included
DC On/Off	TTL Logic-Low "0V": ON; High "5V": Off
Temp Monitoring	Rosemount Aerospace 0146MA
Over-Temp Shutdown	set at +85°C
Over-Current Shutdown	Included

Mechanical Specifications:

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

Environmental Specifications (by design):

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



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