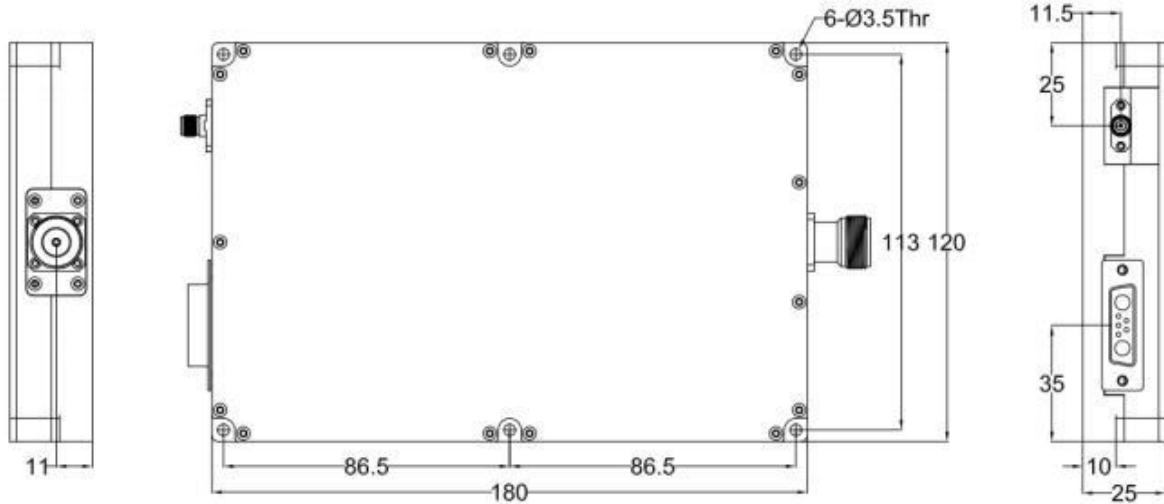


6–13GHz 100W Satellite Jamming Power Amplifier

PA8275

Key Features

- Power-Up Sequence Fault Protection
- Over-Voltage Protection



Interface Definitions

No.	Interface Function	Connector Type	Description
X1	28 V DC Power Input	D-SUB 7W2	Main DC power supply input
X2	RF Output	N-Type (Female)	Amplified RF signal output
X3	RF Input	SMA (Female)	RF signal input

Electrical Specifications

Parameter	Unit	Min	Typ	Max
Frequency Range (BW)	GHz	6.0	—	13.0
Power Gain	dB	49	—	—
Saturated Output Power (P_{SAT})	dBm	49	50	51
Maximum Input Power (P_{IN})	dBm	—	0	+10
Input VSWR	dB	—	—	≤ -10 (VSWR $\leq 2.0:1$)
Harmonic Suppression @ P_{SAT}	dBc	—	-10	—
Spurious Emissions	dBc	—	—	≤ -60

(Typical Performance @ 28 VDC, +25 °C, 50 Ω System)

Environmental Characteristics

Parameter	Unit	Min	Typ	Max
Supply Voltage	V (DC)	—	28	—
Power Consumption	W	—	—	500
Operating Temperature	°C	-10	+25	+50
Storage Temperature	°C	-40	+25	+70
Relative Humidity	%RH	—	5% – 75%	—
Cooling Method	—	Conduction	Conduction	Conduction

Mechanical Characteristics

Parameter	Unit	Specifications
Dimensions (L × W × H)	mm	180 × 120 × 25
Weight	kg	1.2
RF Input Connector	—	SMA (Female)
RF Output Connector	—	N-Type (Female)
Power & Control Interface	—	D-SUB 7W2