



SOLID STATE HIGH POWER AMPLIFIER

MPH090100G50120

FEATURES

- Wide Bandwidth
- Low Power Consumption
- Low Noise Figure
- Miniature Sizes for drop-In Assembly
- Hermetically Sealed Package for Military Application

APPLICATIONS

- Microwave Radio & VSAT
- Military & Space
- Test Instrumentation
- Fiber Optics



ELECTRICAL SPECIFICATIONS@25°C:

Parameter	Min	Typical	Max	Units
Frequency Range	9		10	GHz
Small Gain	50			dB
Output Power (Psat)		120		Watt
Noise Figure			10	dB
Harmonics		40		dBc
Spurious	70			dBc
Duty			50	%
Pulse Width		100		us
VSWR			2:1	Ratio
DC Power Supply		28		Volt
Current		25		A

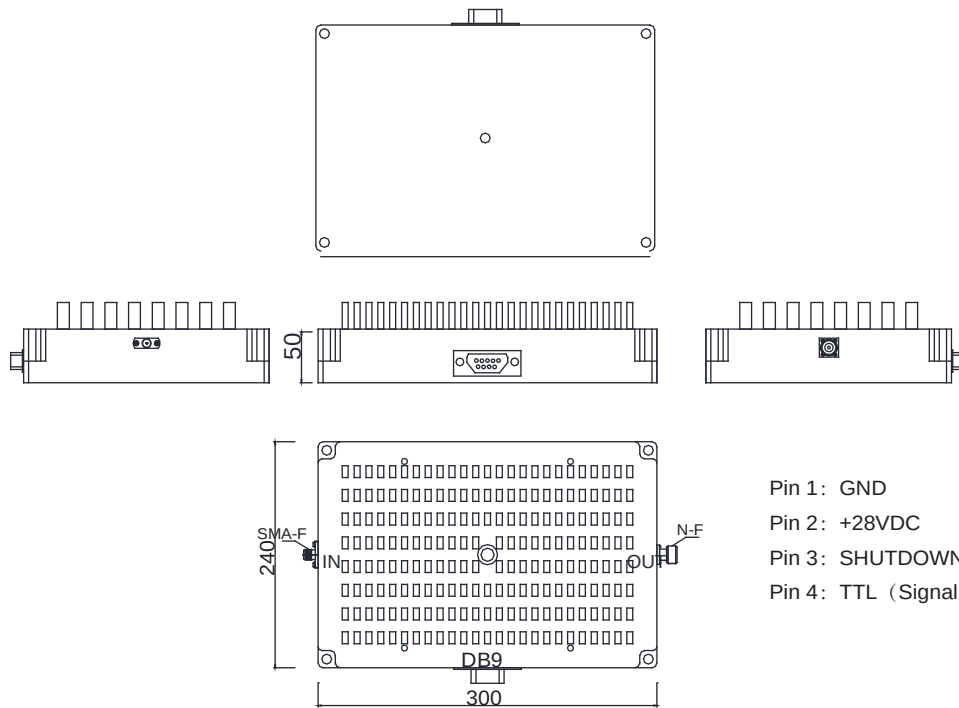
ENVIRONMENTAL RATINGS:

Parameter	Min	Typical	Max	Units
Input power Overdrive			+25	dBm
Operating Temperature	-25		+55	°C
Non-operating Temperature	-30		+70	°C
Relative humidity (non-condensing)		95		%
Altitude (MIL-STD-810F)	10000		30000	feet
Vibration	0.32g2/Hz @33.3~108Hz 0.25g2/Hz@26.7~86.7Hz 10-3g2/Hz@15~2000Hz			
Load VSWR	∞@all load phase & amplitude for duration of 1 minute 3:1@ all load phase & amplitude continuous			NOM

MECHANICAL SPECIFICATIONS:

Parameter	Value	Limits	Units
Dimensions	300*240*50	Max	Millimeter
Weight	5	Typ	Kg
RF Connectors Input	SMA-F		
RF Connectors output	N-F		
Impedance	50		ohms

OUTLINE DRAWING(mm):



- Pin 1: GND
- Pin 2: +28VDC
- Pin 3: SHUTDOWN (Power Supply Control)
- Pin 4: TTL (Signal Pulse Control)

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