



W-Band Amplifier 75GHz - 110GHz, WR-10

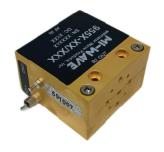
Physical Properties

• Material: 6061 T-6 Aluminum • Finish: Gold Plating

• Dimensions: 1.5x1.5x0.94 Inches • Bias: Feed-thru Pin

• Input Port: WR-10 Waveguide • Flange: UG-387/U-M

• Output Port: WR-10 Waveguide



SN: AW7ZZH
*Picture shown is indicative only.5

Electrical Specifications @ 25°C		Test Data			
Parameters	Specifications	Min.	Тур.	Max.	Unit
Frequency	75 to 110	75	-	110	GHz
Gain	35.0 typ.	19.8	37.0	49.2	dB
P1dB	+9.0 typ.	+9.9	+11.4	+13.2	dBm
Psat	+12.0 to +15.0 typ.	+10.8	+13.4	+15.4	dBm
OIP3	+13.0 typ.	-	+14.4	-	dBm
VSWR	2.2 typ.	-	2.2	-	:1
Supply Voltage 1,3	+6	+5	+6	+10	Vdc
Supply Current	0.200 typ.	0.092	0.130	0.152	А

- 1. DC Supply must be able to source at least 0.25A DC at startup.
- 2. Open and short-circuit loads are not recommended at the amplifier output. Ensure proper 50 Ohm load before turning the amplifier "ON".
- 3. Reverse biasing will destroy the amplifier.
- 4. Do not put any foreign objects inside the waveguide. Warranty Void.
- 5. SN or PN may differ from actual unit. Please refer to outline on page 3 for more details.

Absolute Maximum Ratings			
Parameter	Ratings		
Operating Temperature	-10°C to +45°C		
Storage Temperature	-40°C to +100°C		
Total Power Dissipation	3W		
Input Power (CW)	+5dBm		
DC Operating Voltage	+12V		

^{*}Permanent damage may occur if any of these are exceeded.

Biasing Up Procedure		
Step 1	Connect Ground Pin	
Step 2	Apply DC Supply Voltage	
Step 3	Turn ON RF input	
Power Down Procedure		
Step 1	Turn OFF RF input	
Step 2	Turn OFF DC Supply Voltage	
Step 3	Remove Ground	

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