955W-85/104/35/20/387H

W-Band Amplifier 85GHz - 104GHz, WR-10

Physical Properties

- Material: 6061 T-6 Aluminum
- Dimensions: 1.5x1.5x0.94 Inches
- Input Port: WR-10 Waveguide
- Output Port: WR-10 Waveguide
- Finish: Gold Plating
- Bias: Feed-thru Pin
- Flange: UG-387/U-M

SN: L91X8S

*Picture shown is indicative only.[5]

Electrical Specifications @ 25°C		Test Data			
Parameters	**Specifications**	**Min.**	**Typ.**	**Max.**	**Unit**
Frequency	85 to 104	85	-	**104**	GHz
Gain	35.0 typ.	31.0	36.7	**41.6**	dB
P1dB	+18.0 min.	+18.1	+18.9	**+19.9**	dBm
Psat	+20.0 typ.	+19.1	+20.5	**+21.3**	dBm
Input VSWR	1.92 typ.	-	1.92	-	:1
Output VSWR	1.92 typ.	-	1.78	-	:1
Supply Voltage [1,3]	+6 to +8 typ.	+5	+6	**+12**	Vdc
Supply Current	.400 typ.	.390	.420	**.550**	A

1. DC Supply must be able to source at least 0.8A 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.
6. Heat sink required when operating for longer durations.

Absolute Maximum Ratings	
Parameter	**Ratings**
Operating Temperature	-40°C to +80°C
Storage Temperature	-40°C to +100°C
Total Power Dissipation	8W
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