

Physical Properties

- Material: 6061 T6 ALUMINIUM
- Dimensions: 1.8x2.25x0.45
- Input Port: 2.92mm Female (K)
- Finish: Gold Plating
- Bias: Feed-thru Pin
- Output Port: 2.92mm Female (K)



SN: A0RZ6I

*Picture shown is indicative only.⁵

Electrical Specifications @ 25°C		Test Data			
Parameters	Specifications	Min.	Typ.	Max.	Unit
Frequency	18 to 40	18	-	40	GHz
Gain	25.0 min. / 33.0 max.	25.3	31.5	32.9	dB
Noise Figure	6.5 to 7.0 max.	-	6.5	-	dB
P1dB	+20.0 typ.	-	+25.1	-	dBm
Psat	+24.0 typ.	+26.0	+27.4	+28.5	dBm
VSWR	1.8 typ.	-	1.8	-	:1
Supply Voltage ^{1, 3}	+12.0	+6.0	+12.0	+15.5	Vdc
Supply Current	1.00 typ.	0.42	0.65	0.80	A

1. DC Supply must be able to source at least 1.2A DC at startup.
2. Ensure proper 50 Ohm load before turning the amplifier "ON".
3. Reverse biasing will destroy the amplifier.
4. All data taken @ +25°C unless otherwise specified.
5. SN or PN may differ from actual unit. Please refer to outline on page 3 for more details.
6. Additional Heatsink required when operating at saturation for extended durations.

Absolute Maximum Ratings	
Parameter	Ratings
Operating Temperature	-55°C to +85°C
Storage Temperature	-55°C to +100°C
Total Power Dissipation	15W
Input Power (CW)	+20dBm
DC Operating Voltage	+15.5V

*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

The material presented in this datasheet was current at the time of publication. Mi-Wave's continuing product improvement program makes it necessary to reserve the right to change our mechanical and electrical specifications without notice. If either of these parameters is critical, please contact the factory to verify that the information is current. This material consists of Mi-Wave's general capabilities information and does not contain controlled technical data as defined within the International Traffic in Arms (ITAR) Part 120.10 or Export Administration Regulations.(EAR) Part 734.7-11. D-405/05.01.18

