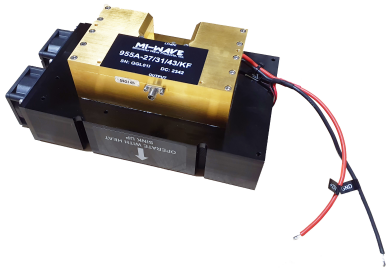
955A-27/31/43/KF

A-Band Amplifier 27GHz to 31GHz, KF

Physical Properties

- Material: 6061 T-6 Aluminum
- Dimensions: 5x7x1 Inches
- Input Port: K(F)
- Output Port: K(K)
- Finish: Gold Plating
- Bias: 16 AWG Wires



SN: QGL01l
*Picture shown is indicative only.[5]

Electrical Specifications @ 25°C		Test Data			
Parameters	**Specifications**	**Min.**	**Typ.**	**Max.**	**Unit**
Frequency	27 to 31	27	-	31	GHz
Gain	35.0 typ.	33.9	37.0	39	dB
Psat	+43.0 typ.	+41.8	+42.5	+42.7	dBm
Input Power for Psat	+10 typ.	+12	+15	+16	dBm
Supply Voltage [1,3]	+23 typ.	+22	+23	+24	Vdc
Supply Current	0.9 typ.	0.75	1.2	4.5	A

1. DO NOT APPLY TTL DIRECTLY. Gradually ramp up to +23V.
2. Additional heatsink required for continuous Amplifier operation for longer duration.
3. +23 DC Supply must be able to source at least 5A DC at startup.
4. Reverse biasing will destroy the amplifier.
5. Open and short-circuit loads are not recommended at the amplifier output. Ensure proper 50 Ohm load before turning the amplifier "ON".
6. SN or PN may differ from actual unit.

Absolute Maximum Ratings	
Parameter	**Ratings**
Operating Temperature	-10°C to +45°C
Storage Temperature	-40°C to +80°C
Total Power Dissipation	85W
Input Power (CW)	+20dBm
DC Operating Voltage	+24V DC

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

Biasing Up Procedure	
Step 1	Connect Ground Pin
Step 2	Gradually Ramp Up +23V DC Supply
Step 3	Turn ON RF Input
Power Down Procedure	
Step 1	Turn OFF RF input
Step 2	Turn OFF +23V DC Supply
Step 3	Remove Ground

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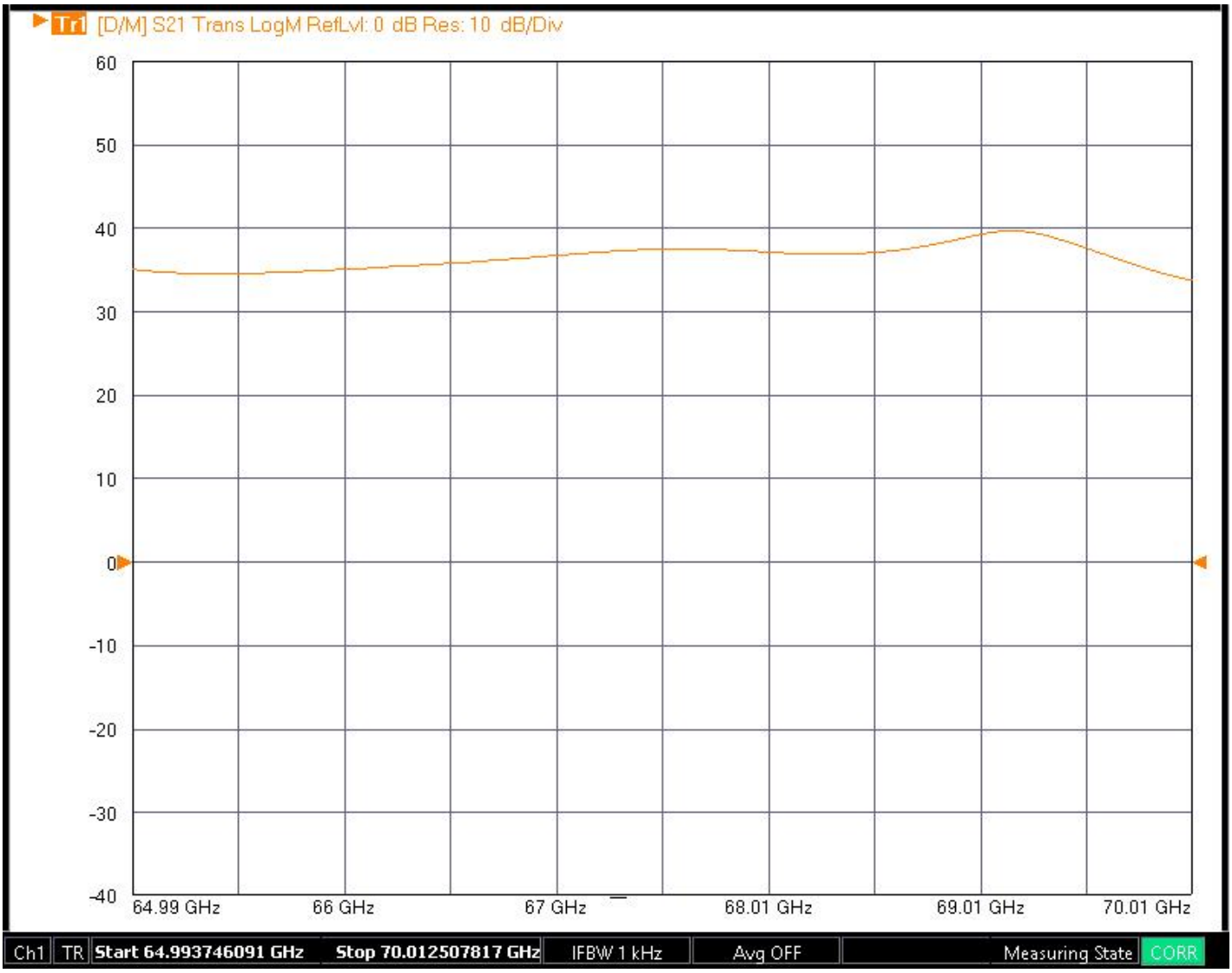
Small Signal Gain



Tested By: MN

Date: 10/16/2023

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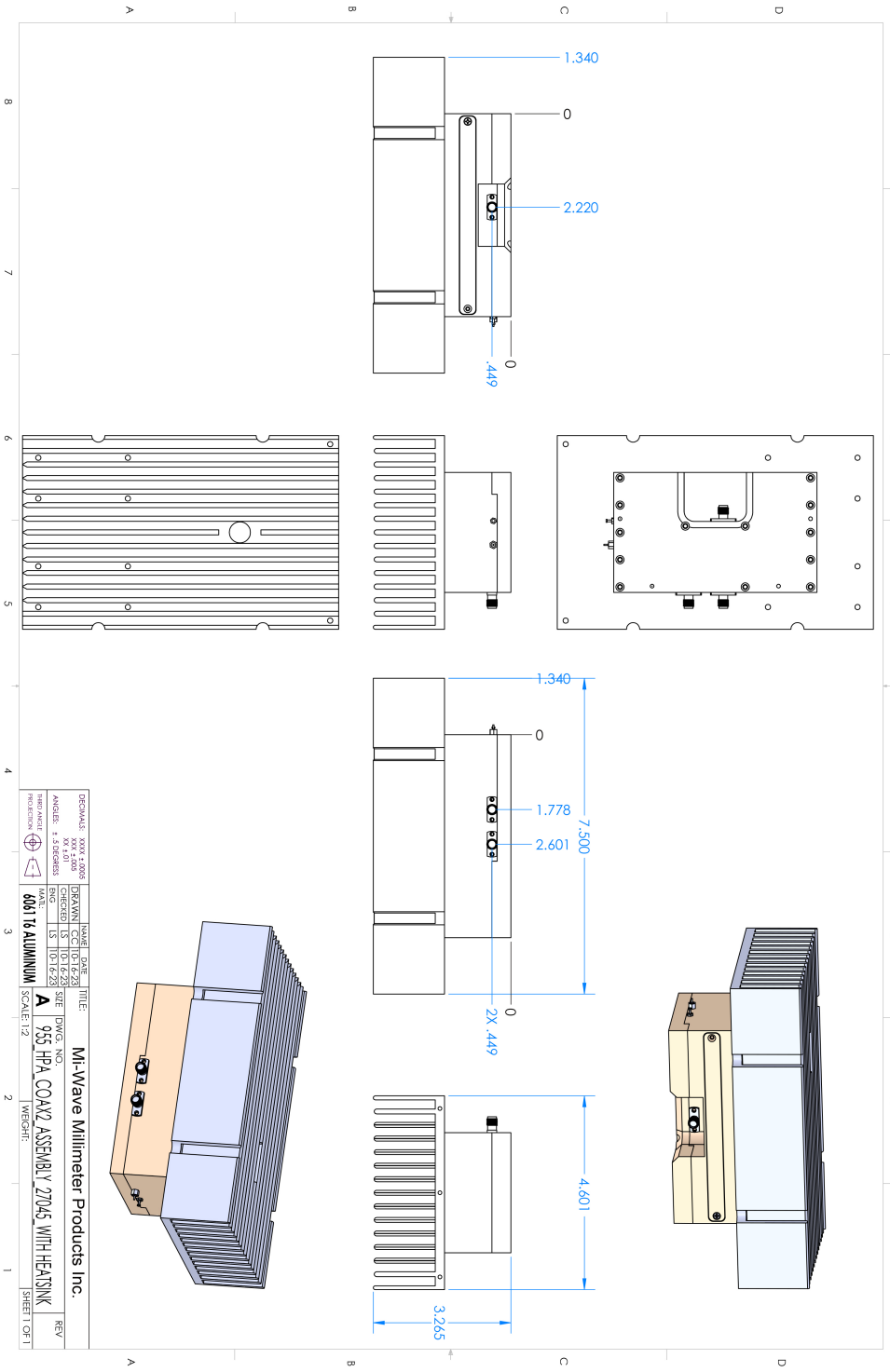
Outline Drawing



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