



2 Watt Psat, 800 MHz to 4.2 GHz, Medium Power
Amplifier, 31 dB Gain, 41 dBm IP3, SMA

TECHNICAL DATA SHEET

PE15A5034F

The PE15A5034F is a 1.5 W high gain power coaxial amplifier operating in the 0.8 to 4.2 GHz frequency range. The amplifier offers 1.5 Watts min of saturated power and a high 31 dB typical small signal gain with the gain flatness of ± 2.0 dB max. The amplifier requires typically a +13V DC power supply. The connectorized SMA module is unconditionally stable and operates over the temperature range of 0°C and +50°C and has a heatsink and fan for proper operation.

Features

- 0.8 GHz to 4.2 GHz Frequency Range
- Psat 1.5 Watts typ
- Small Signal Gain: 31 dB min
- Gain Flatness ± 2.0 dB max
- IP3 41 dBm typ
- 50 Ohms Input and Output Matched
- Unconditionally Stable
- Regulated Supply
- Heatsink and Fan

Applications

- Military Radio
- Communication Systems
- High Gain Driver Power Amplifier
- High Gain Output Power Amplifier

Electrical Specifications (TA = +25°C, DC Voltage = 13Volts DC Current = 1,000mA)

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.8		4.2	GHz
Small Signal Gain	31			dB
Gain Flatness			± 2	dB
Psat		+31.8		dBm
Output at 1 dB Compression Point	+30.8			dBm
Output 3rd Intercept Point		+41		dBm
Harmonics		-20		dBc
Spurious		-60		dBc
Input VSWR			2.2:1	
Operating DC Voltage		13		Volts
Operating DC Current			1,000	mA
Operating Temperature Range	0		+50	°C

Environmental Specifications

Temperature

Operating Range

0 to +50 deg C

Humidity

95

Shock

Normal Truck Transport

Vibration

Normal Truck Transport

Altitude

10000

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2 Watt Psat, 800 MHz to 4.2 GHz, Medium Power Amplifier, 31 dB Gain, 41 dBm IP3, SMA PE15A5034F](#)



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Compliance Certifications (visit www.Pasternack.com for current document)

Not RoHS Compliant

Plotted and Other Data

Notes:

- Values at +25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.

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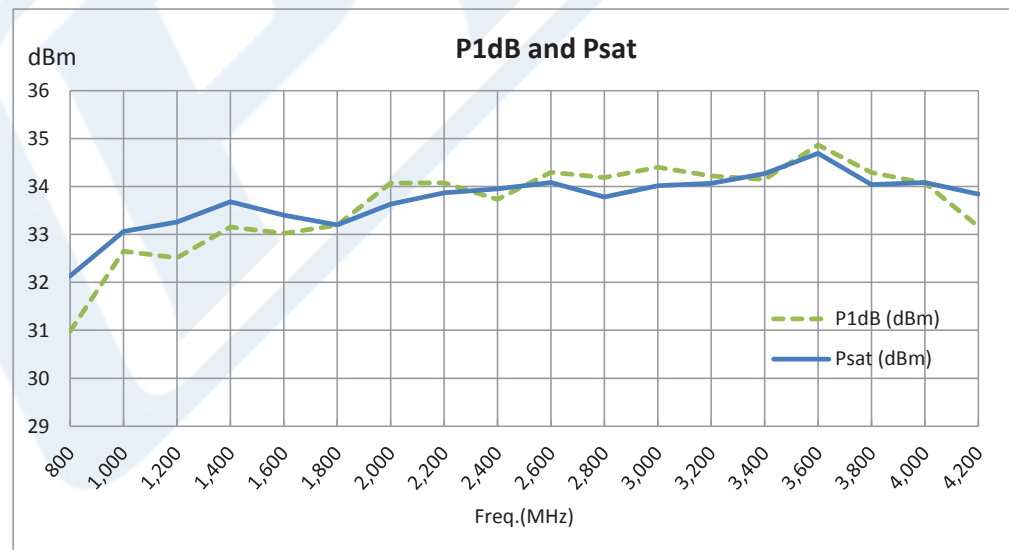
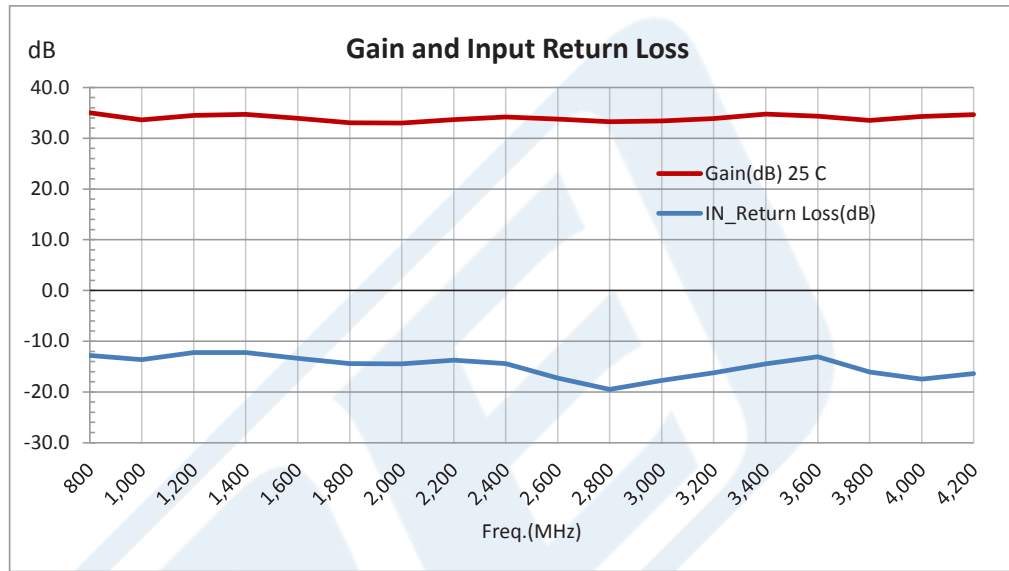


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Typical Performance Data



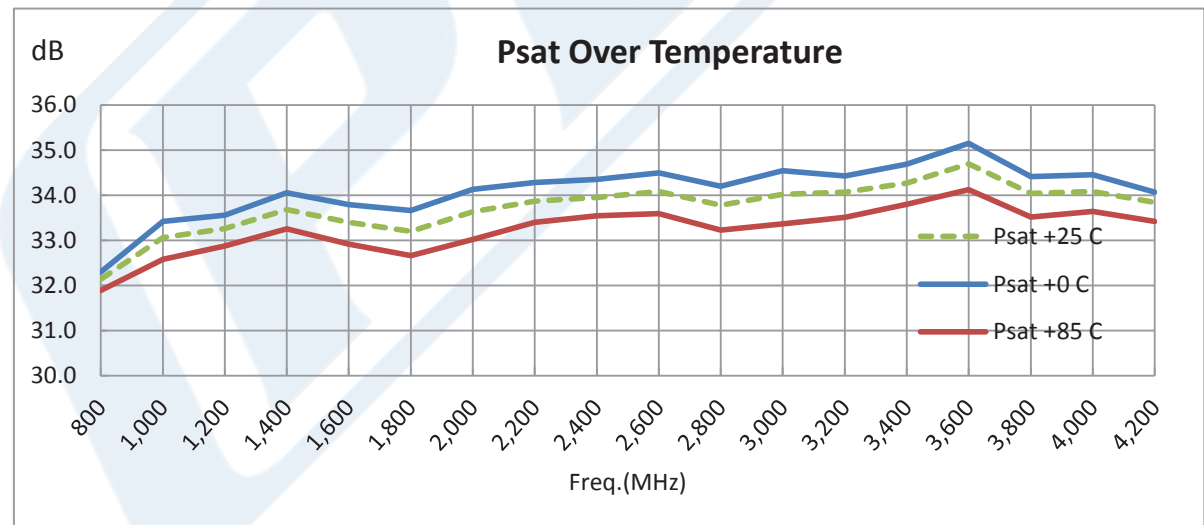
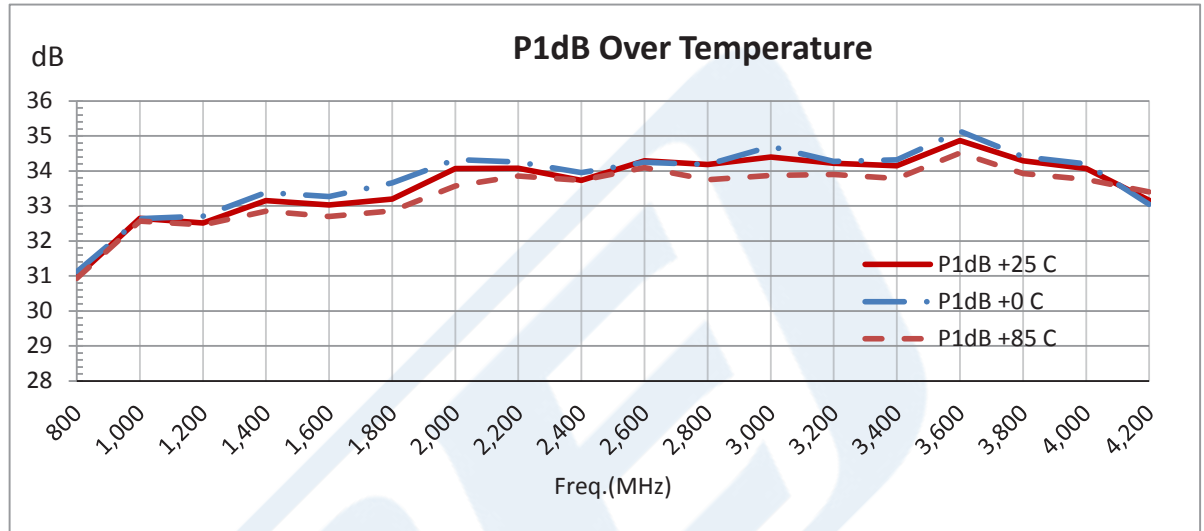
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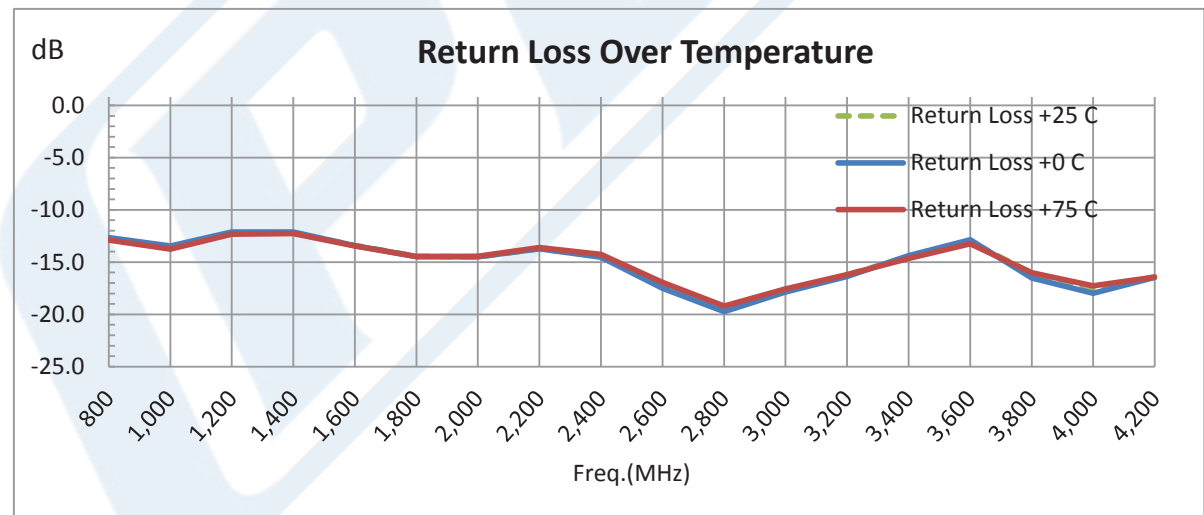
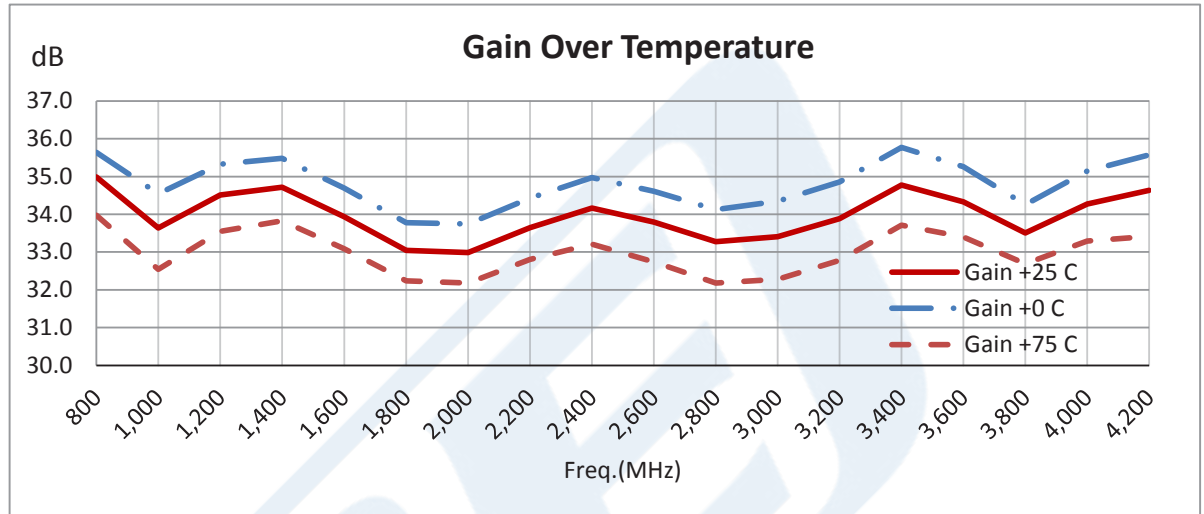
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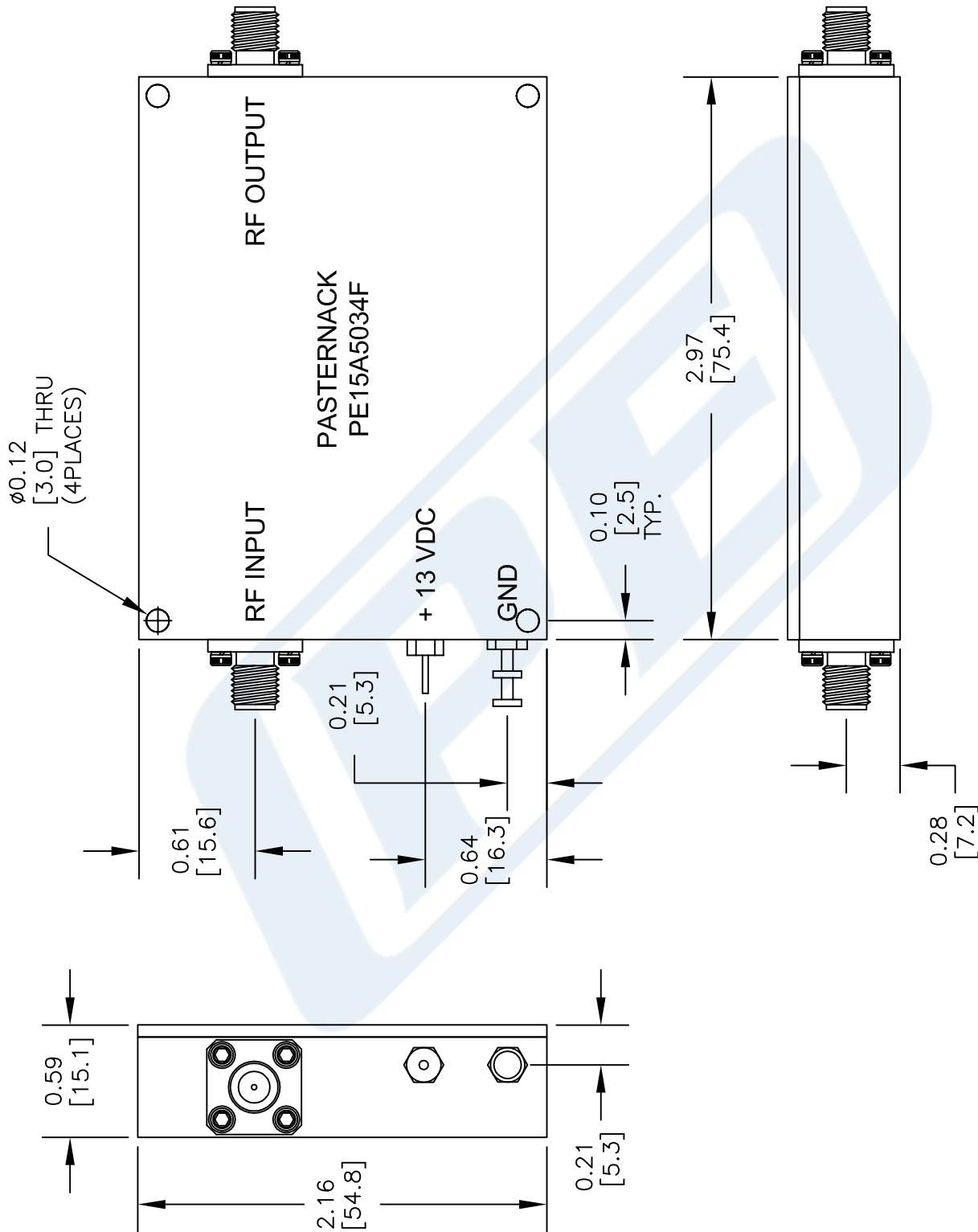


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PE15A5034F

PE15A5034F CAD Drawing

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DWG TITLE

PE15A5034F

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

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Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com

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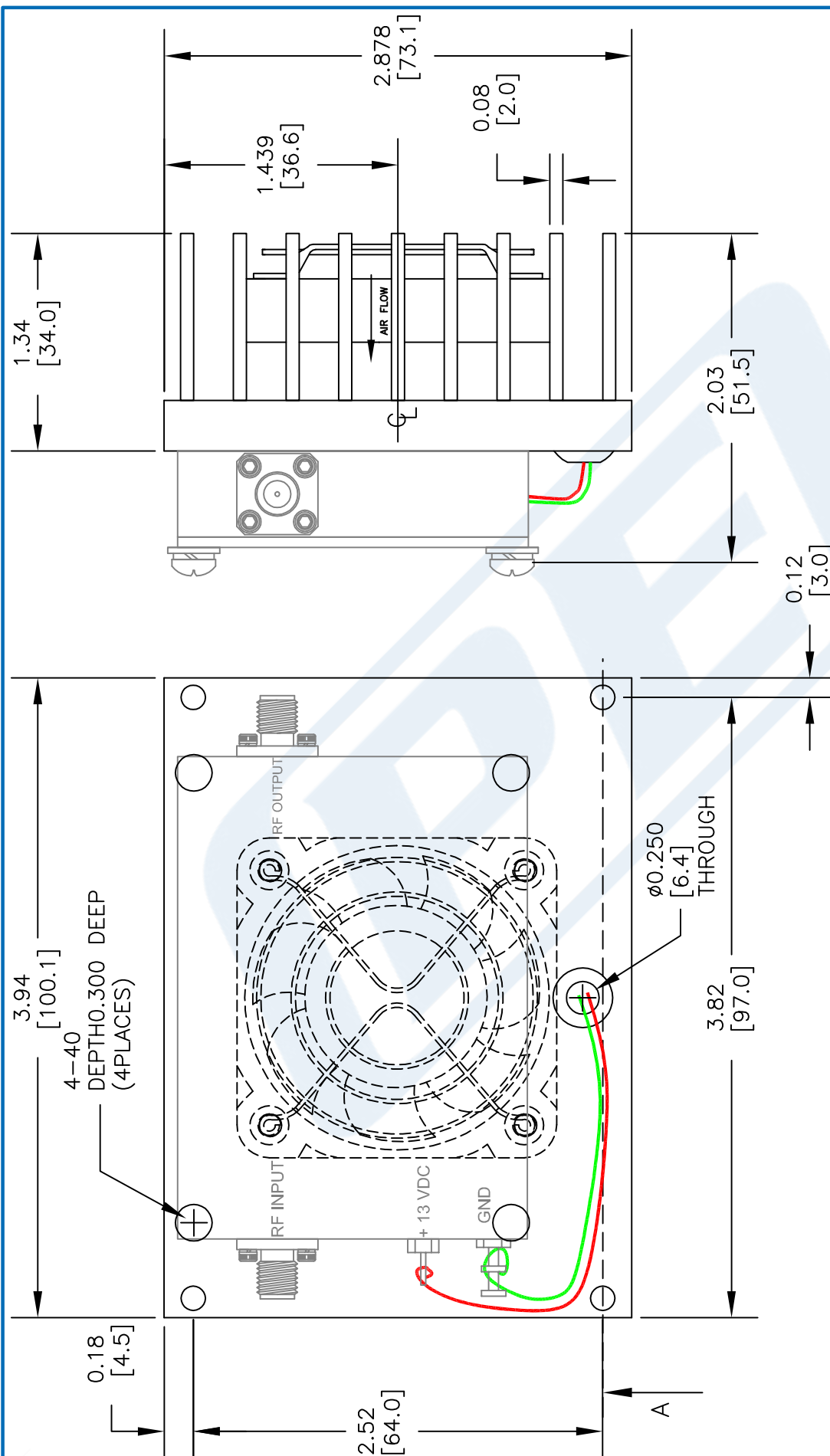
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SCALE N/A

SIZE A

150

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FSCM NO. 53919

CAD FILE **100214**

SIZE A

150

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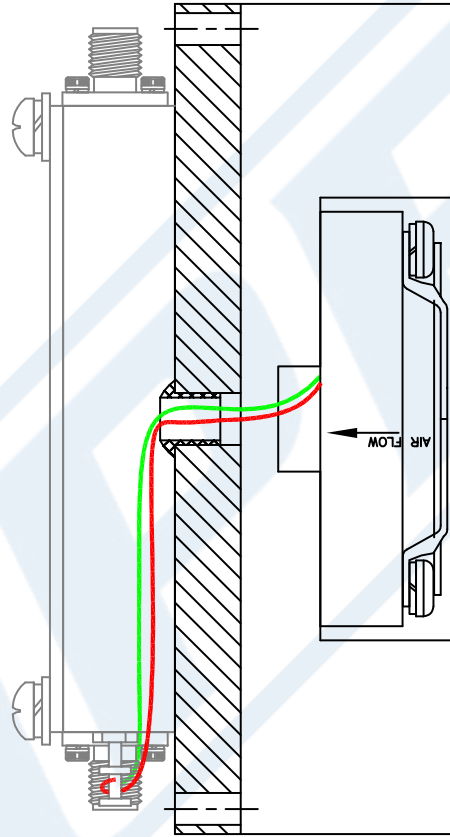
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View A-A



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DWG TITLE

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150

SIZE A

SCALE N/A

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