



5300 Beethoven Street, Los Angeles, CA 90066
TEL: (310)306-5556 • FAX: (310)821-7413
WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5302384

**700 - 800 MHz
50 WATTS
LINEAR POWER RF AMPLIFIER**

Solid State Broadband High Power RF Amplifier

The 5302384 is a 50 Watt broadband amplifier that covers the 700 – 800 MHz frequency range. The bandwidth is limited by the BPF to 700 to 800MHz. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3rd order intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability.

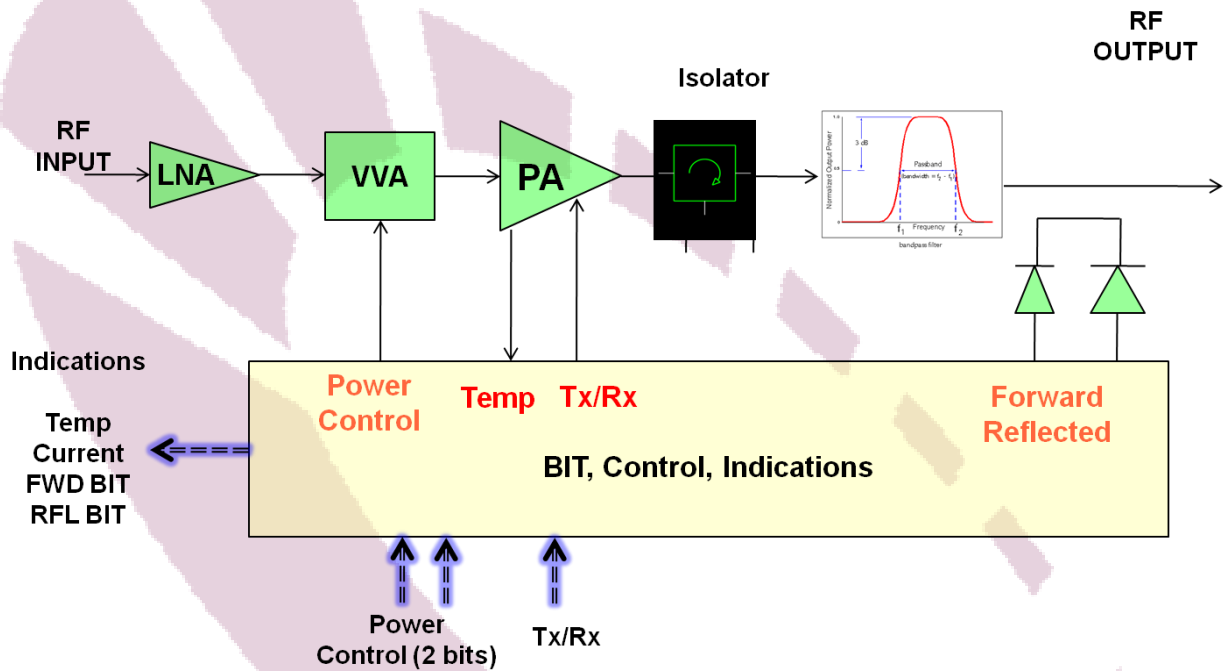
	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	700 – 800 MHz
2	Output Power @1dB back off	50 Watts min
3	Small Signal Gain	+50 dB min
4	Small Signal Gain Flatness	+/-1.0 dB max
5	BPF rejection	20dB min. at 655 & 850 MHz Ultimate attenuation: 60dB min. VSWR: 1.5:1 in the pass band
6	Input /Output VSWR	2:1 max
7	Harmonics	-60 dBc max
8	Spurious Signals	-60 dBc max
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Power	150 Watts max @ 50W output
11	DC Input	28 VDC
12	RF Input for 50W out	0 dBm nominal
13	RF Input Signal Format	Burst & Continuous
14	Class of Operation	A/AB
15	Noise Figure	8dB max
16	Interface	Discrete

<u>Mechanical</u>		
17	Dimensions	8" x 8" x 2"
18	Weight	10 lb. max
19	Connectors	Type-N for RF Filtered D-sub for control and indications
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
22	Baseplate Temperature	-20° C to +71° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

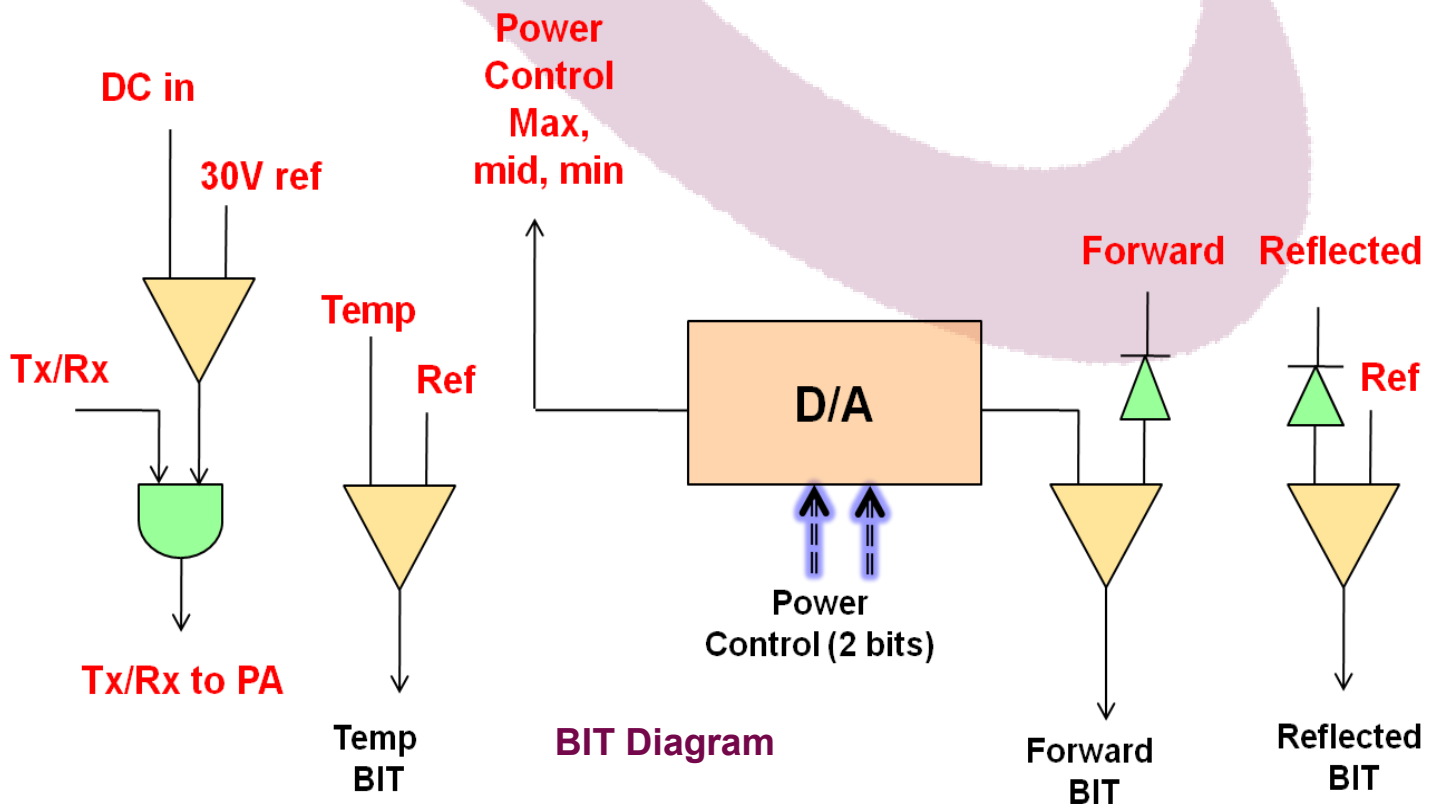


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Block Diagram



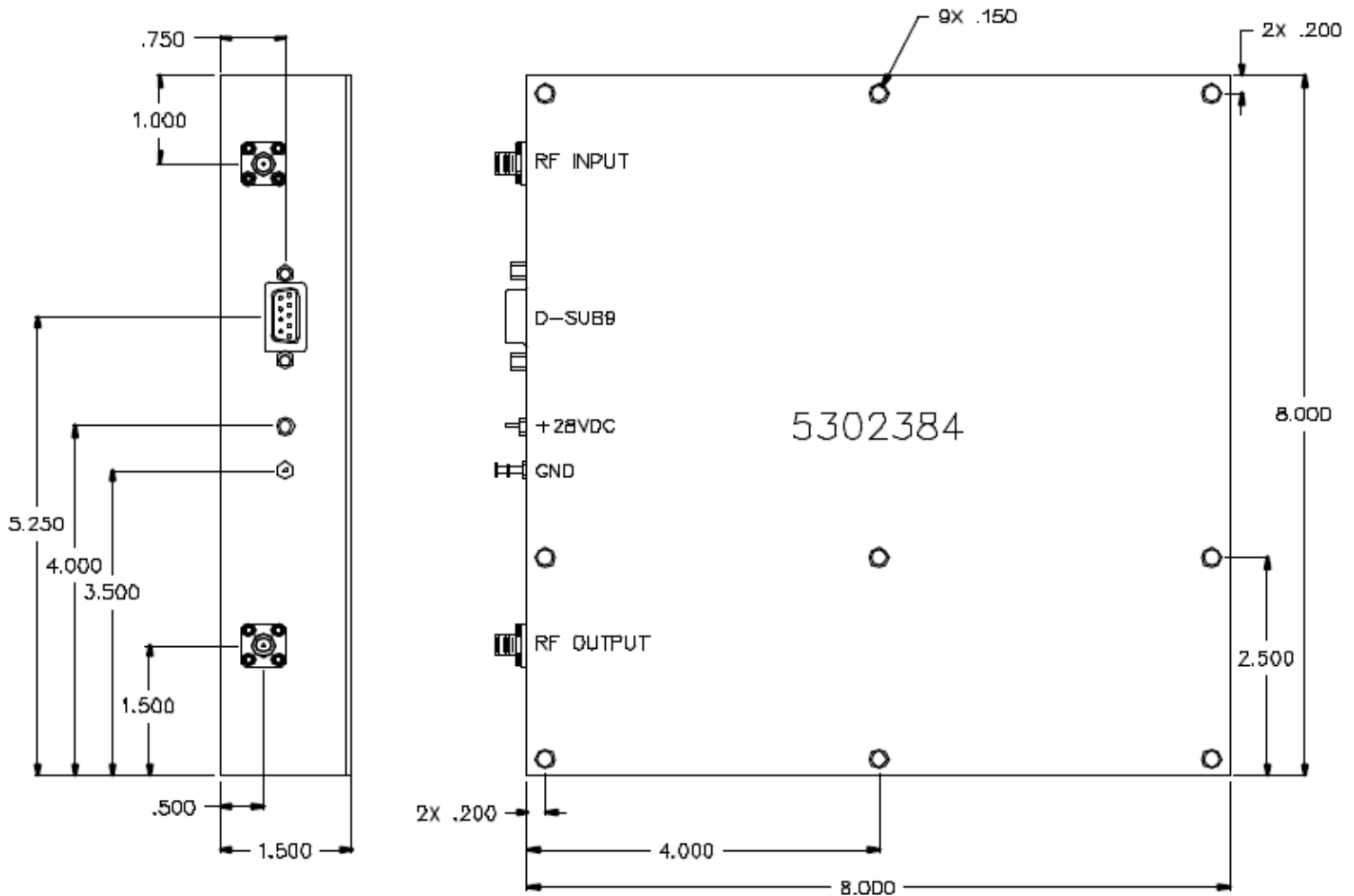
BIT Diagram



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D-SUB9 LEGEND

PIN #	DESCRIPTION / FUNCTION
1	POWER CONTROL
2	POWER CONTROL
3	TEMP. BIT
4	FWD POWER BIT
5	REFLECTED POWER BIT
6	RX / TX
7	N/C
8	N/C
9	N/C