

RFIC Solutions Inc.

Preliminary Datasheet

Driver Amplifier

RTDA01

Description

The **RTDA01** is a 2.0 to 5.0 GHz; CMOS driver amplifier. The device is designed for the 802.11 a/b/g WLAN systems.

The driver amplifier gives 18 dBm Pout for the frequency range 2.0 to 5.0 GHz. The input and output matching is on chip which reduces the cost of the chip. The RTDA01 is biased with a single 3.3 V supply.



Key Features



2 to 5 GHz frequency

range covered

On chip matching

Applications

- IEEE 802.11 a/b/g WLAN
- Cellular System
- WiFi Systems
- ISM Band Systems

Electrical Specification

Parameter	Min	_Typical_	Max	Units
Frequency Range	2		5	GHz
Gain	13.5		17.5	dB
Pout (@ P1 dB)		18		dBm
Input Return Loss		8		dB
Output Return Loss		10		dB
Supply Current		192.4		mA
DC Voltage		3.3		V

Conditions: Vcc =3.3 V & T_A=25 ⁰C



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Driver Amplifier Simulated results

RTDA01



Input Return Loss Vs Freq



1 dB Compression Point



Ouput Return Loss Vs Freq





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