



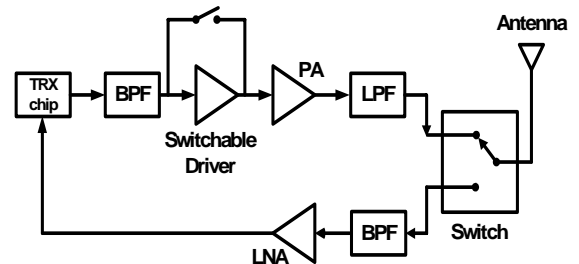
Front End Module

RFISFR01

Description

The **RFISFR01** is a RF front-end module that integrates band switching and is a transceiver front end designed for low voltage operation.

The module contains wide band power amplifier, low noise amplifiers, band pass, low pass filters.



Applications

- High speed wireless MAN
- Wireless local loop(WLL)
- Spread spectrum & MMDS systems

Key Features

- Single integrated RF module
- High Power Added Efficiency
- Built-in Voltage Regulation
- Adjustable gain

Electrical Specifications

Conditions: $V_{cc} = 3 \text{ to } 5 \text{ V}$ & $T_A = 25^\circ\text{C}$

Transmitter Path

Parameter	Min	Typical	Max	Units
Frequency range	2.5		2.686	GHz
Power Output (P1dB)		27		dBm
Gain		25		dB
Electrical Characteristics				
Switching speed		10		ns
Input return loss		12		dB
Output return loss		8		dB
Supply voltage	3	3.3	5	V
Operating temperature Range	-35	37	60	°C
Storage temperature range	-40	37	125	°C



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Receiver Path

Parameter	Min	Typical	Max	Units
Frequency range	2.5		2.686	GHz
Power Output (P1dB)		13		dBm
Gain		11		dB
Electrical Characteristics				
Noise Figure		2.4		dB
Impedance at RF port		50		ohm
Switching speed		10		ns
Input return loss		8		dB
Output return loss		10		dB
Supply voltage	3	3.3	5	V
Operating temperature Range	-35	37	60	
Storage temperature range	-40	37	125	

Control Logic

V_{CTL}	Min	Typical	Max
0V	1	0	Transmitter
5V	0	1	Receiver

Module Photograph

