

Typical Applications

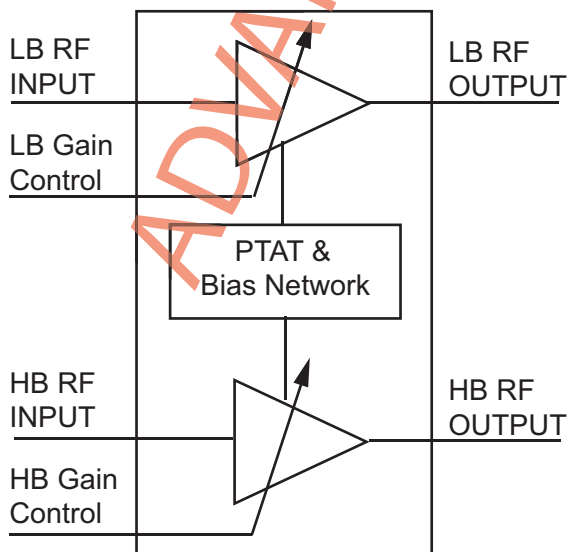
The TRFS-303 is an RF variable-gain amplifier core circuit, designed for use in such applications as:

- CDMA2000, AMPS, US PCS High Band, US PCS Low Band, Korean PCS, JTACS, TACS systems
- Dual-mode and multi-band applications
- Voice and data applications

Product Overview

The TRFS-303 is an RF variable-gain amplifier for multi-band wireless communication applications operating at 900MHz and 1.9GHz. The amplifier has a wide gain range, high linearity, and low power consumption. This core circuitry can be easily integrated with other circuits as well as packaged individually in a leadless chip carrier.

Block Diagram



Key Features

- Multi-band RF VGA at 800-1000MHz and 1.75-2.0GHz
- High linearity with OIP3 of 11dBV and low noise of 5.5nV/√Hz @40MHz offset
- Low current consumption

Performance Summary

Item	Unit	Min	Typical	Max	Notes
Supply Voltage	V	2.7	3.0	3.3	
Low Band					
Operating Frequency	MHz	800		1000	
Gain Range	dB	-50		0.5	
Output Referred Noise @40MHz offset	nV/√Hz		5.5		
3 rd Harmonic Output	dB		-60		
OIP3	dBV		13		@Pin=-17dBV
Supply Current (Icc)	mA		7.5		
High Band					
Operating Frequency	GHz	1.75		2.0	
Gain Range	dB			1	
Output Referred Noise @40MHz offset	nV/√Hz		6		
3 rd Harmonic Output	dB		-55		
OIP3	dBV		11.5		@Pin=-17dBV
Supply Current (Icc)	mA		13		

ADVANCE INFORMATION

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