

### Typical Applications

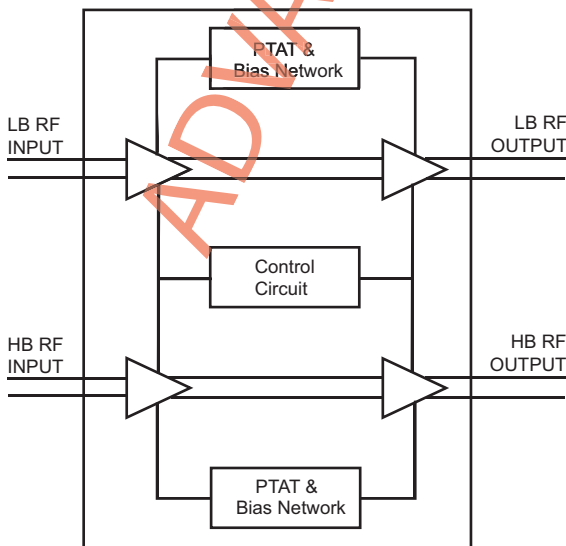
The TRFS-552 is a differential power amplifier core circuit, designed for use in such applications as:

- 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-552 is a dual differential power amplifier for multi-band wireless communication applications operating at 900MHz and 1.9GHz. The two amplifiers are 2-stage bipolar, providing excellent linearity and increased efficiency. 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 power amplifier drivers at 800-950MHz and 1.75-1.98GHz
- Each amplifier is 2-stage bipolar
- Good linearity with OIP3 of 32.5dB

## Performance Summary

Item	Unit	Min	Typical	Max	Notes
Supply Voltage	V		3.6		
<b>Low Band</b>					
Operating Frequency	MHz	800	850	950	
Gain	dB		23		@850MHz
OIP3	dBm		32.5		@850MHz, Po=+10dBm, Icc=38mA
Output Power Level	dBm		10		@Icc=38mA
Supply Current (Icc)	mA		38		
<b>High Band</b>					
Operating Frequency	GHz	1.75	1.85	2.0	
Gain	dB		20		@1.85GHz
OIP3	dBm		32.5		@1.85GHz @Po=+10dBm Icc=38mA
Output Power Level	dBm		10		@Icc=38mA
Supply Current (Icc)	mA		38		

ADVANCE INFORMATION

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