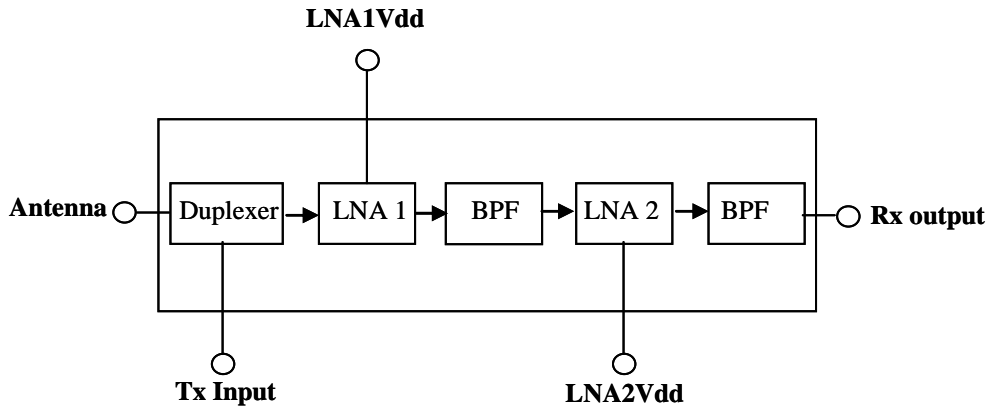


DESCRIPTION

The MODEL VFM1070A is a PCS1900 Rx module. It is ROHS compliant and lead-free.

Block Diagram



Photo



Specifications:

	Typical	Worst case	
Transmit path			
Frequency band	1930 - 1990 MHz		
Tx power into port		6 watts max.	
Tx Insertion loss	3.2 dB	< -4.0 dB	
Tx port return loss	-11 dB	< -10 dB	
Tx antenna return loss	-11 dB	< -10 dB	
Tx to Rx rejection (duplexer) @ 1850 -1910 MHz	-33 dB	< -31 dB	
Tx to Rx rejection (duplexer) @ 1930 - 1990 MHz	-38 dB	< -36 dB	
Tx power at antenna port		2.5 watts max.	
Receive path			
Frequency range	1850 - 1910 MHz		
Rx noise figure	3.6 dB	< 4.5 dB	
Rx gain (including duplexer) @ 1850 - 1910 MHz	23 - 27 dB		
Rx gain (excluding duplexer) @ 1930 - 1990 MHz	-16 dB	< -8 dB	
Rx gain (including duplexer) @ 1708 - 1768 MHz	-95 dB	< -75 dB	
Rx P1dB output @ 1850 - 1910 MHz		> 15 dBm	
Rx IIP3	1 dBm		
LNA #1		LNA #2	
LNA supply voltage	5V	LNA supply voltage	5V
LNA current drain	90 mA	LNA current drain	90 mA
Rx gain	18 dB	Rx gain	18 dB

Temp range: -35 °C - 75°C
 Package size: 53 x 43 x 10.5 mm max.

PRELIMINARY

PCS1900 Rx MODULE

