Product Features

- Integrated Monolithic GaAs MESFET
- Active Mixer Packages Module
- Pb-free 3mm 16-pin QFN package
- Lower Manufacturing Cost
- Higher Productivity and Reliability
- Very Low Noise Figure & Low Distortion

Application

- Repeater
- Base Station



Package Type: QFN-3

Description

The IC operates from a positive +5V rail consuming 130 mA of current while only requiring a 2 dBm LO drive.

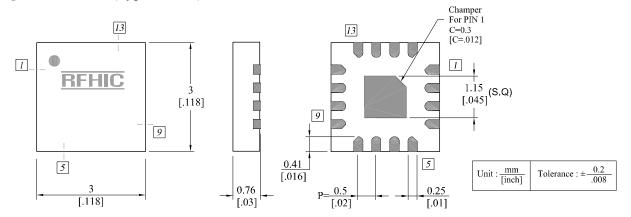
The MCM is implemented with reliable and mature GaAs MESFET technology.

Specifications

(Operating Temperature: -30°C~+80°C)

RF	LO	IF	Conversion	OIP3	LO to IF	IF to RF	
Frequency	Frequency	Frequency	Gain		Leakage	Leakage	Vdd/Idd
(MHz)	(MHz)	(MHz)	(dB)	(dBm)	(dBm)	(dBm)	
1850	1780		6	24	-15	-60	5V/130mA
1950	1880	70	6	24	-15	-60	5V/130mA
2140	2070	70	6	24	-15	-60	5V/130mA
2160	2090		6	24	-15	-60	5V/130mA

Package Dimensions (Type :QFN3)



Functional Pin Layout

Pin No.	Pin No. Function		Function	
1 2 3 4 5 6 7 8	IFN In NC IF In NC CUR Ground Ground Bias	16 15 14 13 12 11 10	RFN Out NC RF Out Ground Bias NC LO_In LON_In	

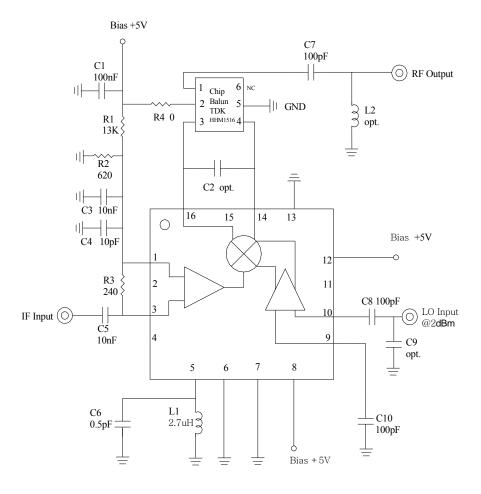
Functional Diagram

- Tel: 82-31-250-5011
- rfsales@rfhic.com

- All specifications may change without notice.
- Version 8.01



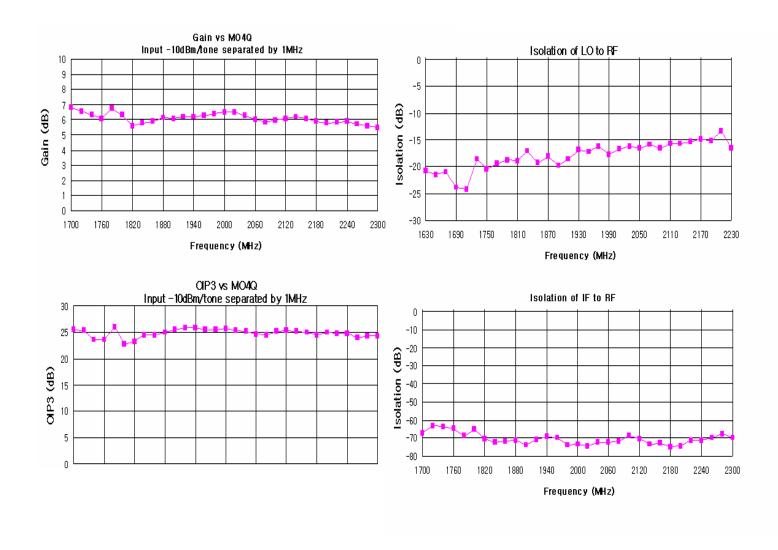
Application Schematic - IMT





Typical Performance at 25 ℃ - PCS, IMT

Test Condition: IF = 70MHz, LO = $1630 \sim 2230MHz@2dBm$, RF = $1700 \sim 2300MHz$



RFHIC Corporation (RFHIC) reserves the right to make changes to any products herein or to discontinue any product at any time without notice. RFHIC do not assume any liability for the suitability of its products for any particular purpose, and disclaims any and all liability, including without limitation consequential or incidental damages. The product specifications herein expressed have been carefully checked and are assumed to be reliable. However, RFHIC disclaims liability for inaccuracies and strongly recommends buyers to verify that the information they are using is current before placing purchase orders. RFHIC products are not intended for use in life support equipment or application where malfunction of the product can be expected to result in personal injury or death. Buyer uses or sells such products for any such unintended or unauthorized application, buyer shall indemnify, protect and hold RFHIC and its directors, officers, stockholders, employees, representatives and distributors harmless against any and all claims arising out of such use. RFHIC's liability under or arising out of damages, claims of whatsoever kind and nature which RFHIC products could cause shall be limited in amount to the net purchase price of the products sold to buyer by RFHIC.

- Tel: 82-31-250-5011

• rfsales@rfhic.com

- All specifications may change without notice.
- Version 8.01