

Product Features

- Integrated Monolithic GaAs MESFET
- Active Mixer Packages Module
- Surface Mount Hybrid Type & Reel Packing
- · No matching circuit needed
- Lower Manufacturing Cost
- Higher Productivity and Reliability
- Very Low Noise Figure & Low Distortion
- Pb Free / RoHS Standard

Application

- Repeater
- Base Station
- RF Sub-Systems



Package Type: HY-1

Description

The IC operates from a positive +5V rail consuming 125 mA of current while only requiring a 2 ± 2 dBm LO drive.

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

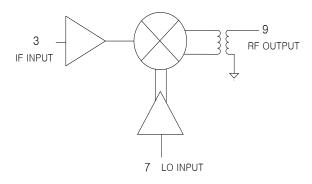
Specifications

(Operating Temperature: -30°C~+70°C)

IF	LO	RF	Conversion	OIP3	P1dB	LO to RF	IF to RF	
Frequency	Frequency	Frequency	Gain			Leakage	Leakage	Vdd/Idd
(MHz)	(MHz)	(MHz)	(dB)	(dBm)	(dBm)	(dBm)	(dBm)	
70	1630-1730	1700-1800	7	26	10	-20	-60	5V/125mA
	1730-1830	1800-1900	4	18	8	-15	-60	5V/125mA

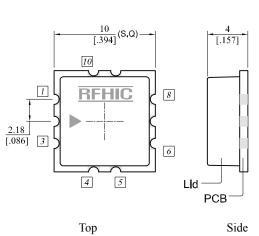
Functional Diagram

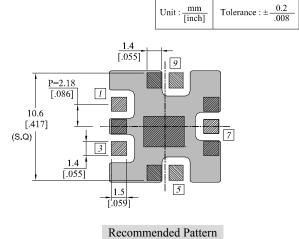
Functional Pin Layout



Pin No.	Function			
1 or 5	Vdd+5V			
3	IF In			
7	LO In			
9	RF Out			
2,4,6,8,10	Ground			

Package Dimensions (Type: HY-1)





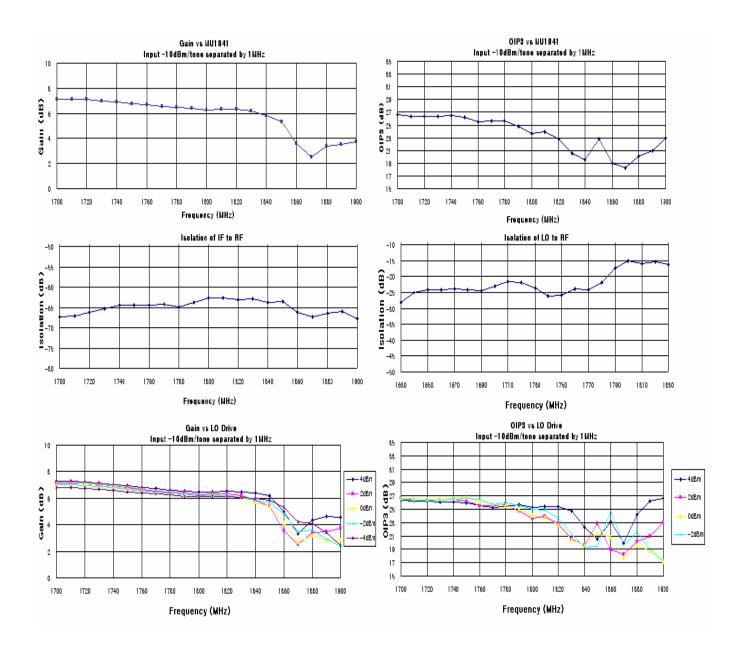
- Tel: 82-31-250-5011
- rfsales@rfhic.com

- All specifications may change without notice.
- Version 6.05



Typical Performance at 25℃

Test Condition: IF = 70MHz@-10dBm, LO = 1630~1830MHz@2dBm, RF = 1700~1900MHz



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