

## 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  $2 \pm 2$  dBm LO drive.

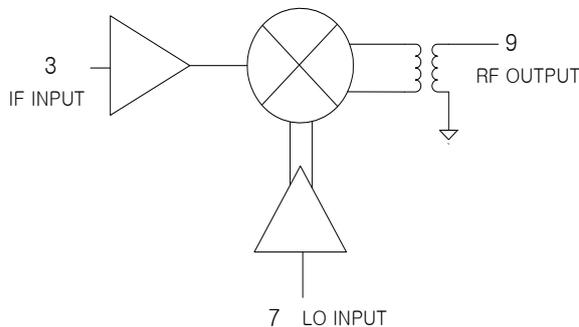
The MCM is implemented with reliable and mature GaAs MESFET technology.

## Specifications

(Operating Temperature: -30°C~+70°C)

IF Frequency (MHz)	LO Frequency (MHz)	RF Frequency (MHz)	Conversion Gain (dB)	OIP3 (dBm)	LO to RF Leakage (dBm)	IF to RF Leakage (dBm)	Vdd/Idd
70	1830-2080	1900-2150	5	25.5	-15	-70	5V/125mA
	2080-2130	2150-2200	5	24.5	-15	-70	5V/125mA

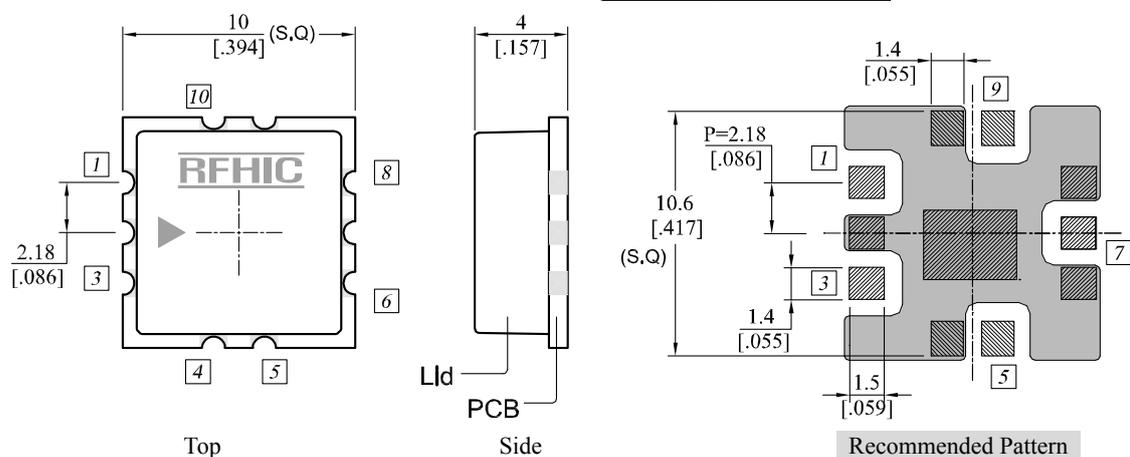
## Functional Diagram



## Functional Pin Layout

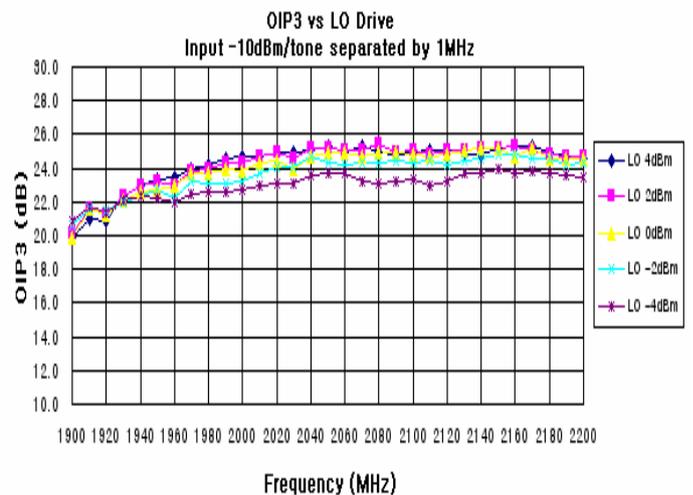
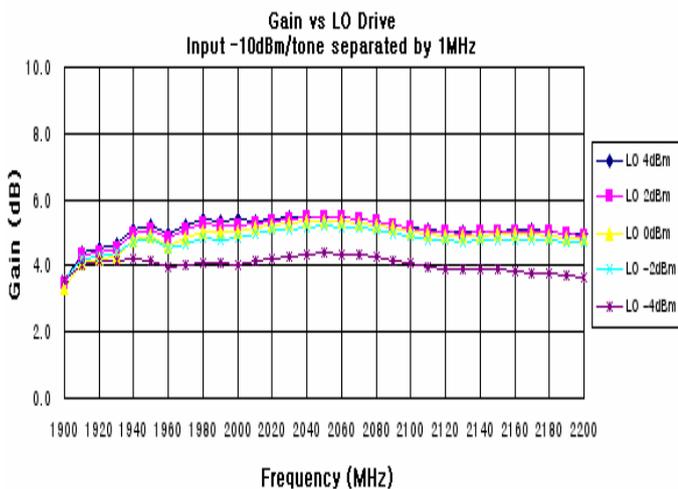
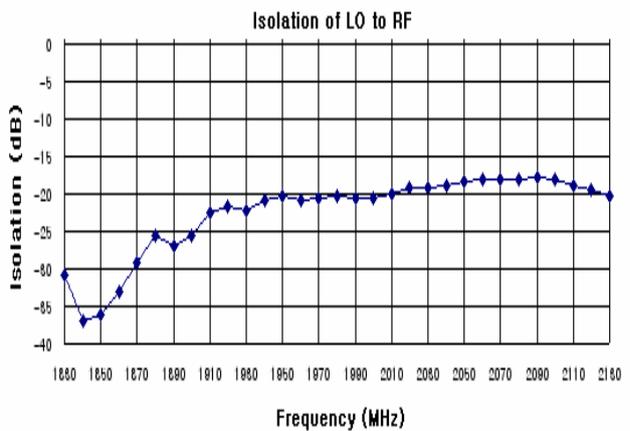
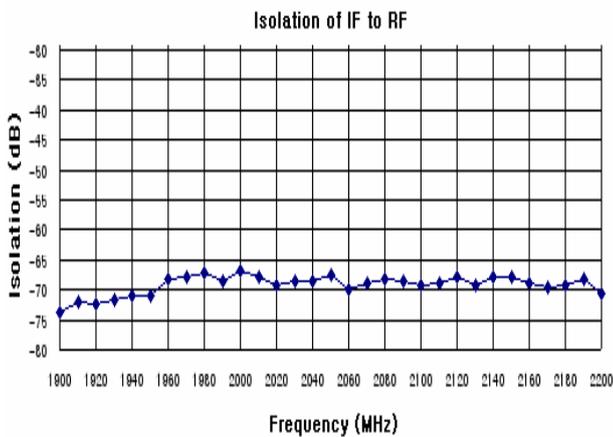
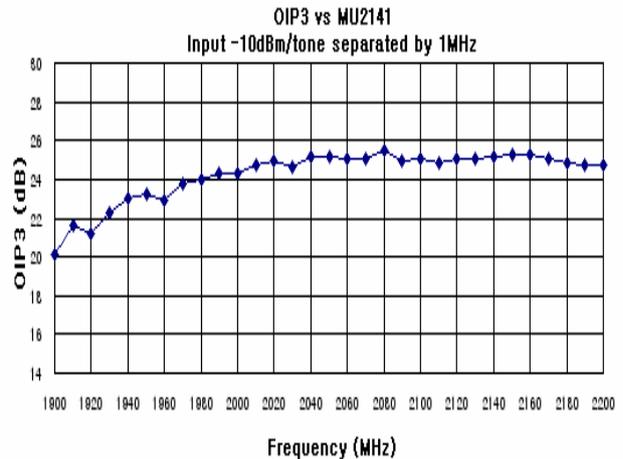
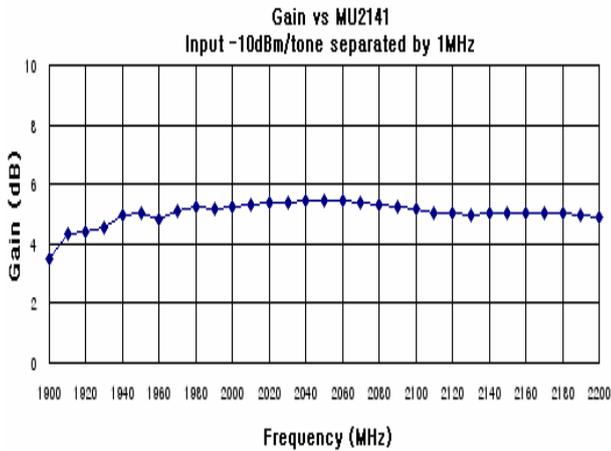
Pin No.	Function
1 or 5	Vdd+5V
3	IF In
7	LO In
9	RF Out
2,4,6,8,10	Ground

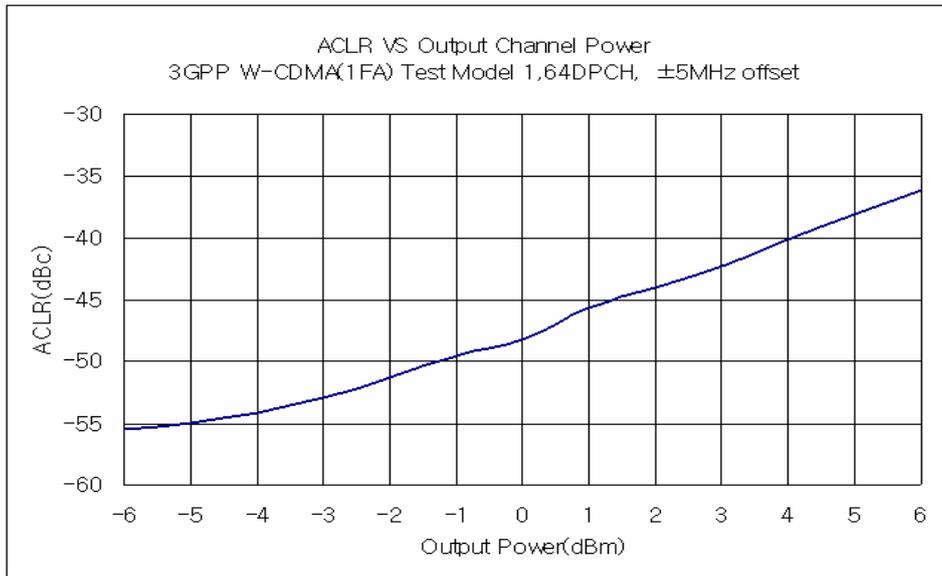
## Package Dimensions (Type: HY-1)



## Typical Performance at 25°C

**Test Condition: IF = 70MHz@-10dBm, LO = 1830~2130MHz@2dBm, RF = 1900~2200MHz**





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