

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 1 ± 2 dBm LO drive.

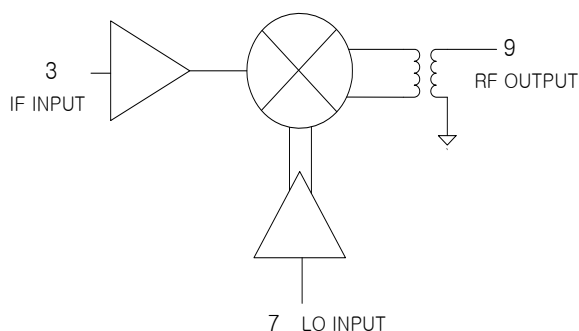
The MCM is implemented with reliable and mature GaAs MESFET technology.

Specifications (IF70MHz) (Typ.)

(Operating Temperature: -30°C~+70°C)

IF Frequency (MHz)	LO Frequency (MHz)	RF Frequency (MHz)	Conversion Gain (dB)	OIP3 (dBm)	Out P1dB (dBm)	LO to RF Leakage (dBm)	IF to RF Leakage (dBm)	Vdd /Idd
50 ~ 200	3330~3430	3400-3600	3	20	5	-15	-65	5V /125mA

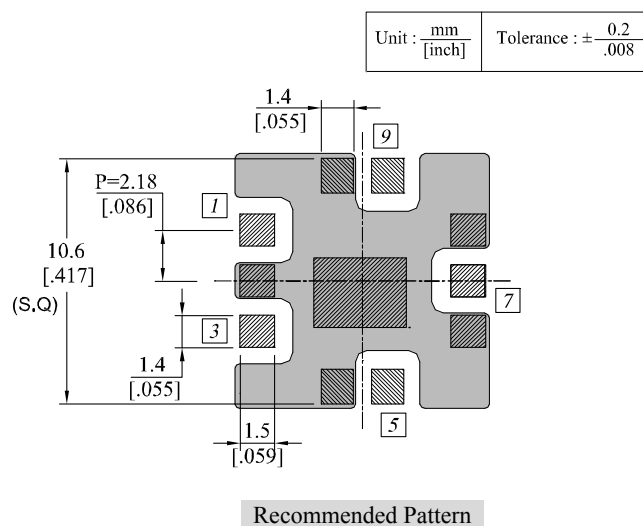
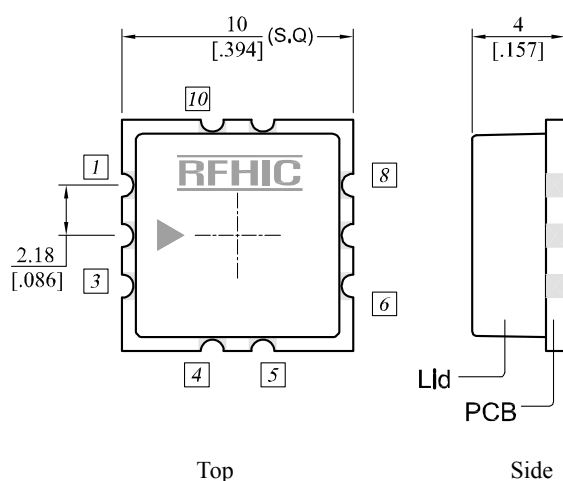
Functional Diagram



Functional Pin Layout

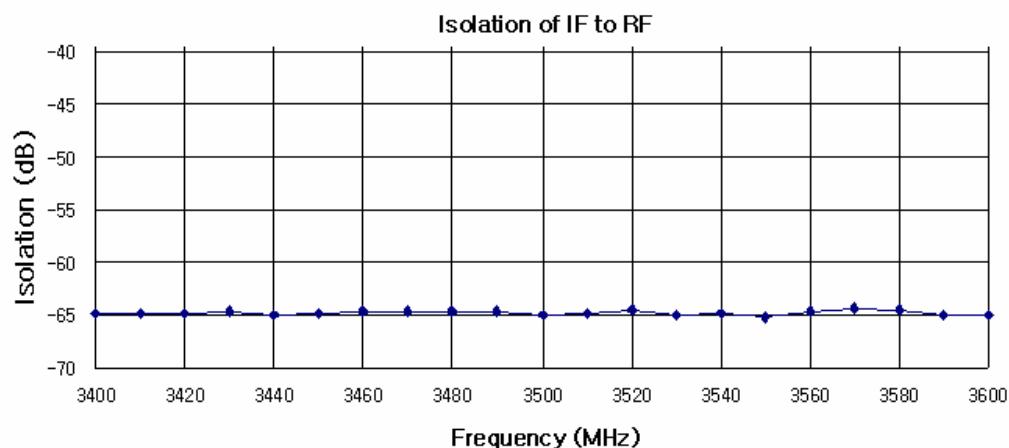
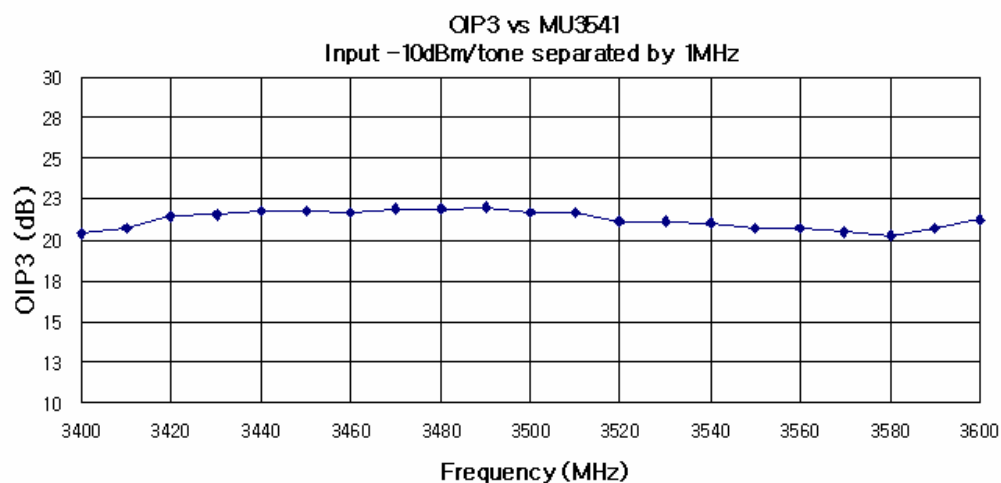
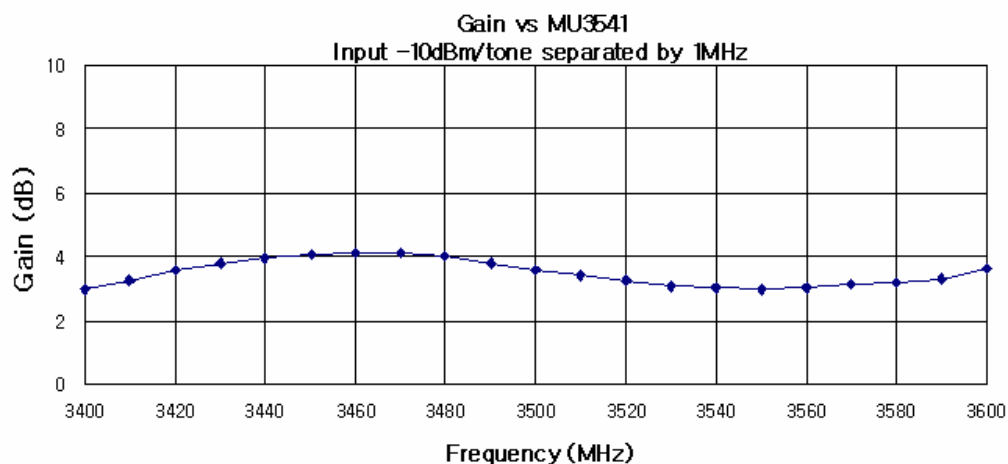
Pin No.	Function
1 or 5	Vdd+5V
3	IF In
7	LO In
9	RF Out
2,4,6,8,10	Ground

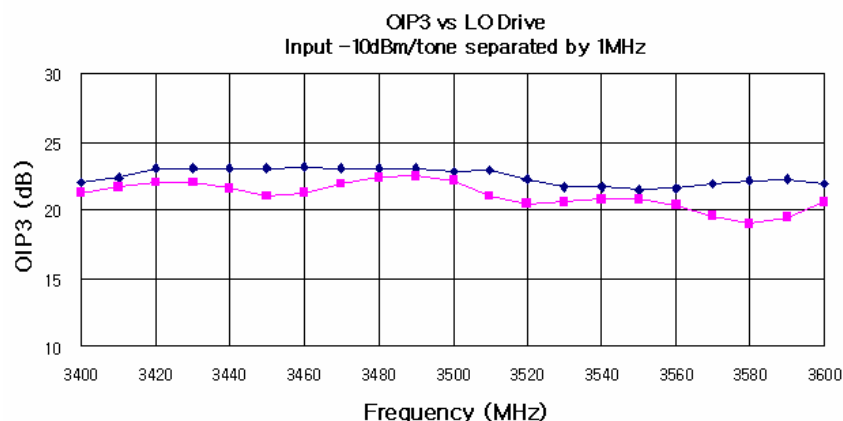
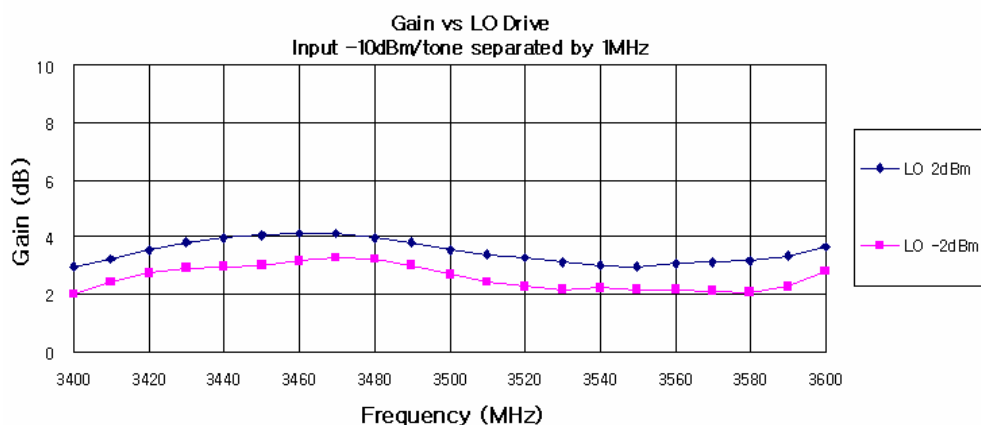
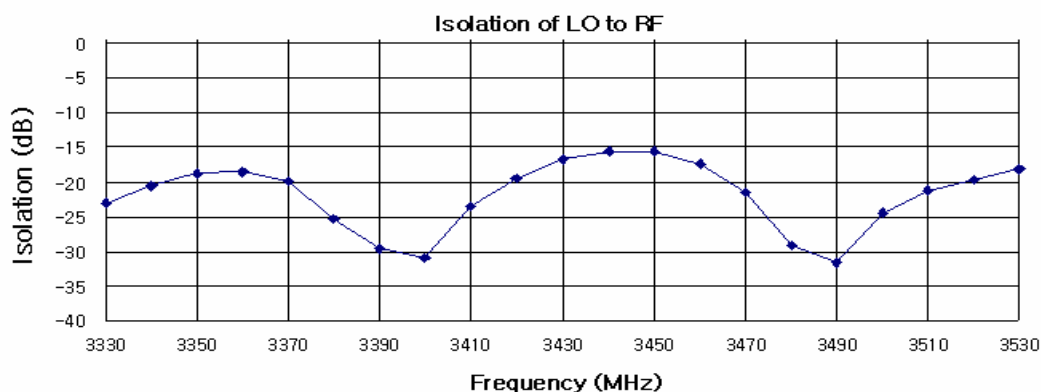
Package Dimensions (Type: HY-1)



Typical Performance at 25°C

Test Condition: 25°C, IF = 70MHz@-10dBm, LO = 3330~3530MHz@2dBm, RF = 3400~3600MHz





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