Active Up Mixer

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

Description

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

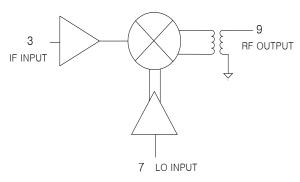
The MCM is implemented with reliable and mature GaAs MESFET technology.

Specifications

(Operating Temperature:	-30°C~+70°C)
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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
70	1730-1830	1800-1900	4	18	8	-15	-60	5V/125mA

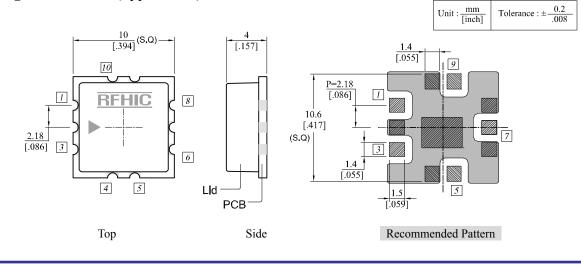
Functional Diagram



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)



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Package Type: HY-1

• Repeater Base Station

Application

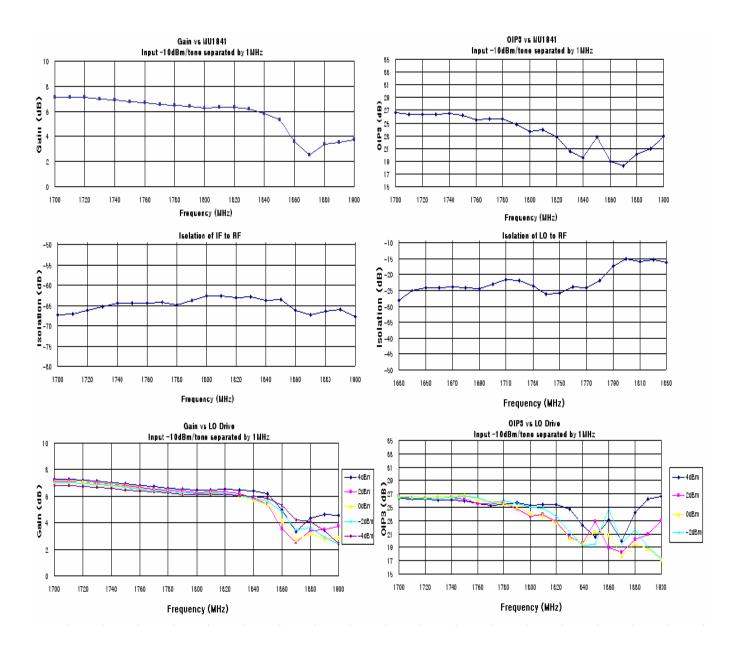
- RF Sub-Systems

MU1841

Active Up Mixer

Typical Performance at 25 ℃

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



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