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

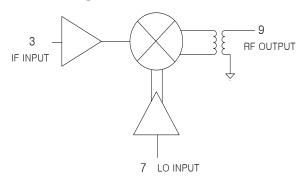
The IC operates from a positive +5V rail consuming 125 mA of current while only requiring a 1 ± 2 dBm LO drive.

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

Specifications (IF70MHz) (Tvp.)

Specifications (11 / official) (13 pt)									
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	

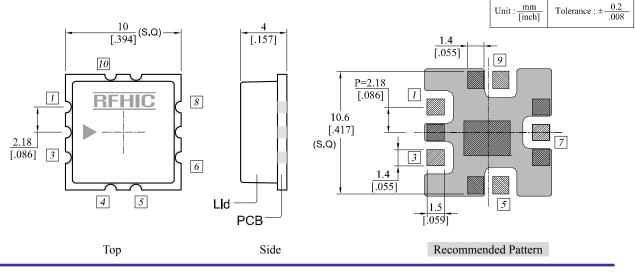
Functional Diagram



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)



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MU3541

- Repeater
- Base Station
- RF Sub-Systems







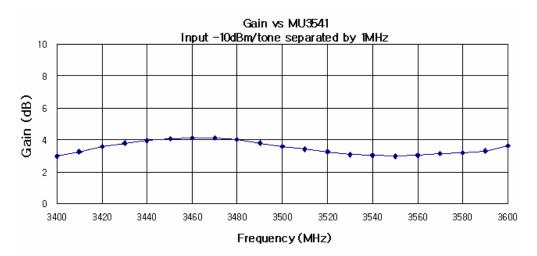
(Operating Temperature: -30°C~+70°C)

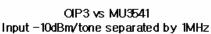
MU3541

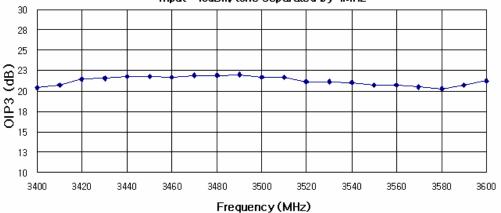


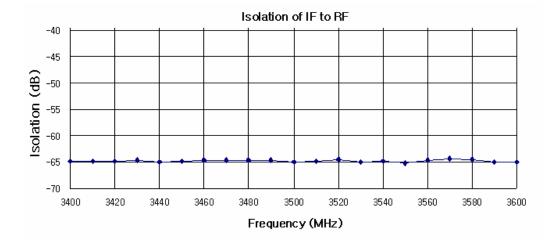
Typical Performance at 25 °C

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









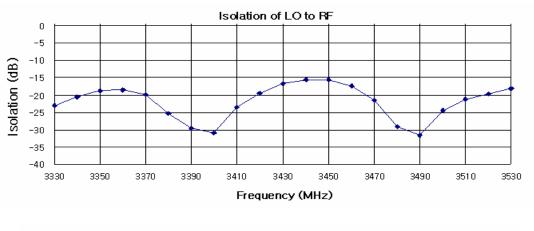
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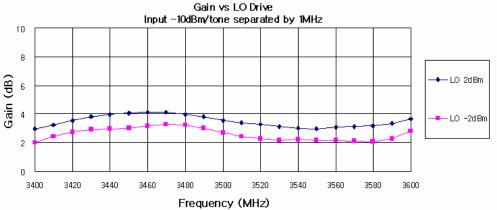
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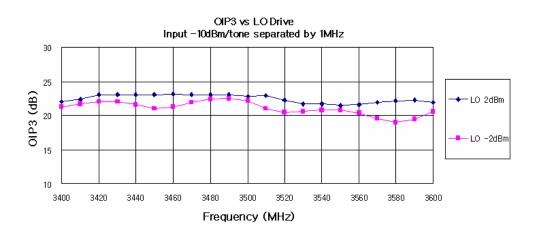
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