Active Down Mixer

Product Features

- Integrated Monolithic GaAs Mixer Package Module
- High Reliability
- Lower Manufacturing Cost
- Higher Productivity
- Very Low Noise Figure & Low Distortion

Description

Application

Repeater

MD2193

- Base Station
- RF Sub-Systems



Package Type: HY-3

RFHIC

The IC operates from a positive +5V rail consuming 145 mA of current while only requiring a 2 ± 2 dBm LO drive. The MCM is implemented with reliable and mature GaAs MESFET technology.

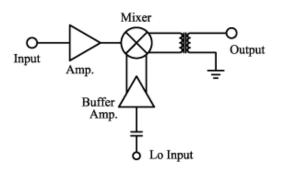
Specifications

(Operating Temperature: -30°C~+70°C)

Part Number	RF	LO	IF	Conversion	OIP3	NF	Output	LO to IF	RF to IF	Vdd
	Frequency	Frequency	Frequency	Gain			P1dB	Leakage	Leakage	/
	(MHz)	(MHz)	(MHz)	(dB)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	Idd
	1900	1830								5V
MD2193	~	~	70	10	27	8.5	10	-20	-25	/
	2200	2130								145mA

Test Conditions : Ta=25°C, Vdd=5V, PLO2dBm, IF=70MHz,

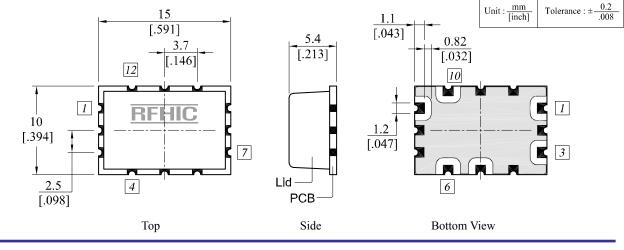
Functional Diagram



Functional Pin Layout

Pin No.	Function			
6 or 10, AND 3	Vdd+5V			
1	Input			
9	Output			
5	LO Input			
2, 4, 6, 7, 8, 11, 12	Ground			

Package Dimensions (Type: HY-3)



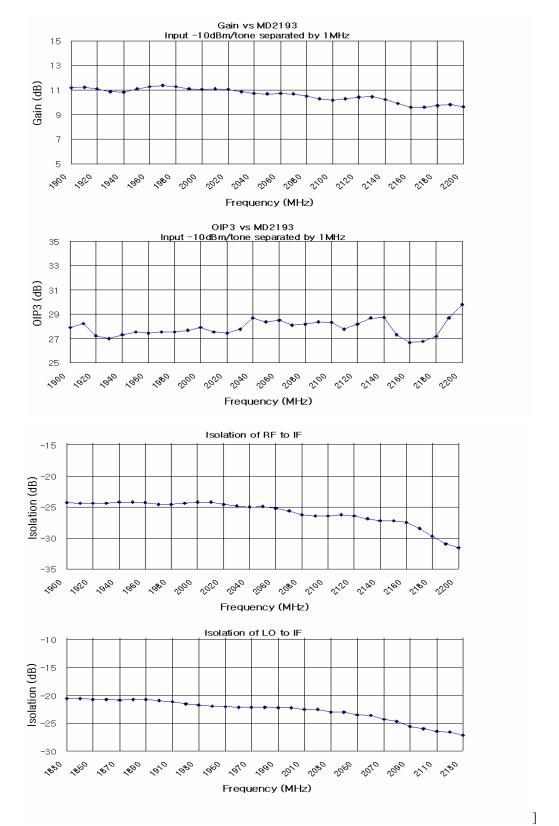
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Test Condition: RF = 1900~2200MHz@-10dBm, LO = 1830~2130MHz@2dBm, IF = 70MHz (Typ.)

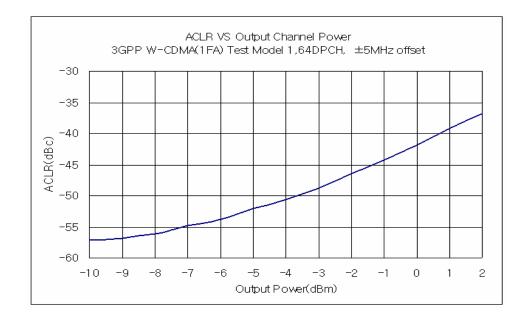
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