Active Down Mixer MD2191



Product Features

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

Application

- Repeater
- Base Station
- RF Sub-Systems



Package Type: HY-2

Description

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.

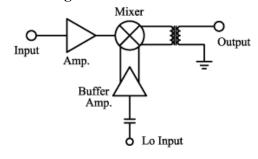
Specifications

(Operating Temperature: -30°C~+70°C)

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

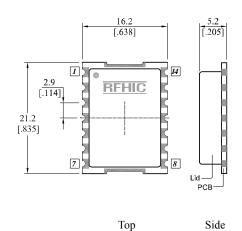
Part Number	RF Frequency (MHz)	IF Frequency (MHz)	Conversion Gain (dB)	IIP3 (dBm)	NF (dB)	Output P1dB (dB)	LO to IF Leakage (dBm)	RF to IF Leakage (dBm)	Vdd/Idd
MD2191	1900~2050	50-200	10	17	8.5	10	-20	-25	5V/145mA
	2050~2200		9	17	8.5	10			

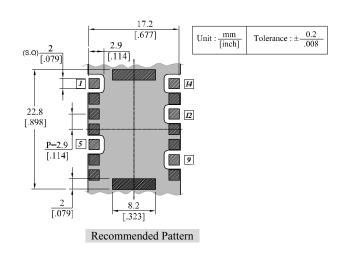
Functional Diagram



Pin No.	Function			
1 or 14	Vdd+5V			
5	RF In			
9	LO In			
12	IF Out			
2,3,4,6,7,8,10,11,13	Ground			

Package Dimensions (Type: HY-2)





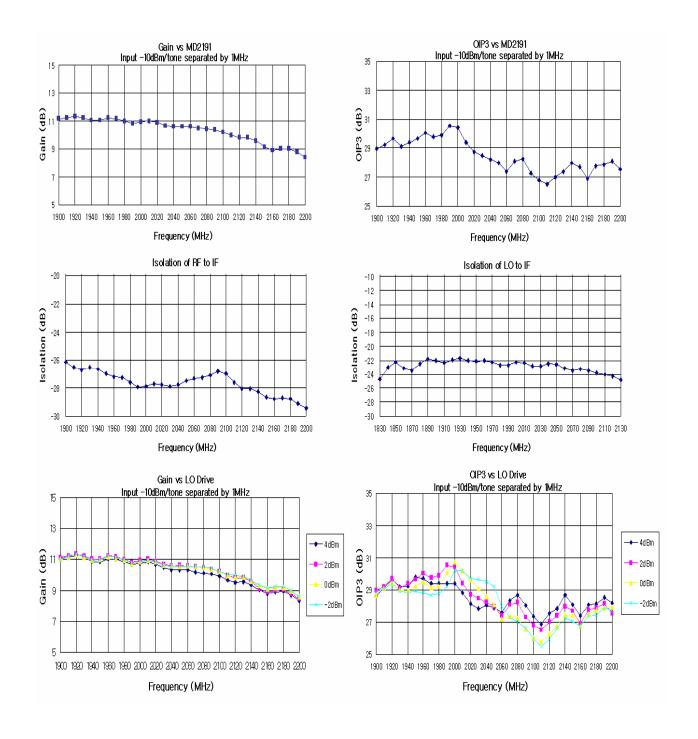
■ Tel: 82-31-250-5011

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- All specifications may change without notice.
- Version 5.05



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



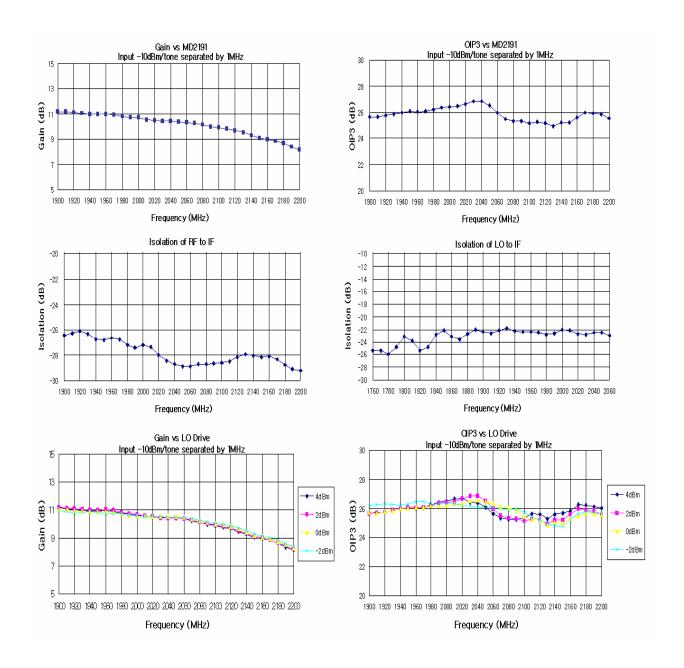
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Test Condition: RF = 1900~2200MHz, LO = 1760~2060MHz@2dBm, IF = 140MHz



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