Active Down Mixer MD2391



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

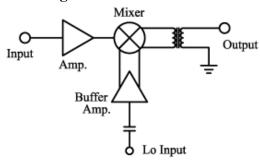
The IC operates from a positive +5V rail consuming 145 mA of current while only requiring a 2 ± 2 dBm LO drive. The MCM is implemented with reliable and mature GaAs MESFET technology.

Specifications (Operating Temperature: -30°C~+70°C)

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

Part	RF	IF	Conversion	IIP3	NF	Output	LO to IF	RF to IF	
Number	Frequency	Frequency	Gain			P1dB	Leakage	Leakage	Vdd/Idd
	(MHz)	(MHz)	(dB)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	
MD2391	2200~2350	50-200	9	17	8.5	9	-18	-18	5V/145mA
	2350~2500		7	18	9	7			

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			

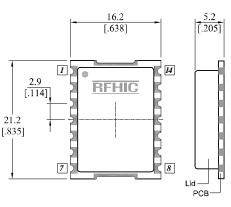
14

12

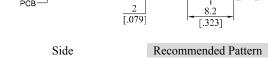
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Unit: $\frac{mm}{[inch]}$

Package Dimensions (Type: HY-2)



Top



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 $(S.Q) \frac{2}{[.079]}$

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- All specifications may change without notice.
 - Version 6.05

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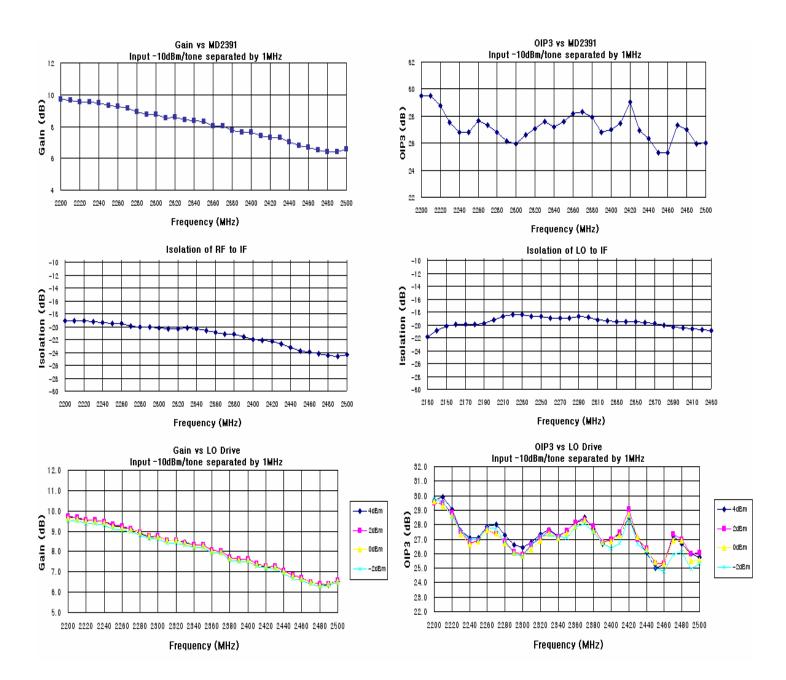
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Test Condition: $RF = 2200 \sim 2500 MHz@-10 dBm$, $LO = 2130 \sim 2430 MHz@2 dBm$, IF = 70 MHz



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