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

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- Repeater
 Base Station
 BE Sub System
 - RF Sub-Systems

Application





Package Type: HY-3

The MD0993 operates from a positive +5V rail consuming 145 mA of current while only requiring a 0 ± 2 dBm LO drive. The MCM is implemented with reliable and mature GaAs MESFET technology.

MD0993

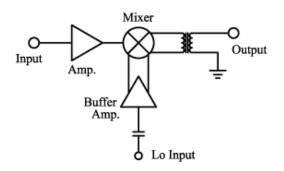
Specifications

(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
	700	630								5V
MD0993	~	~	70~200	12	28	8.5	8	-15	-15	/
	900	830								145mA

Test Conditions : Ta=25°C, Vdd=5V, PL00dBm, IF=70MHz,

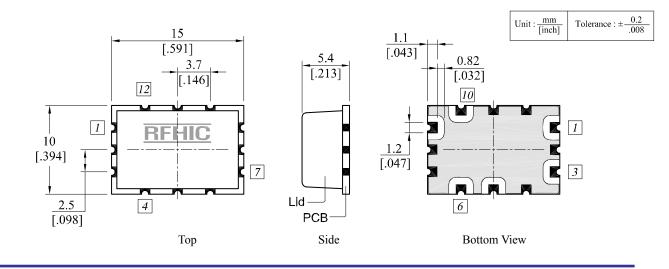
Functional Diagram



Package Dimensions (Type: HY-3)

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			



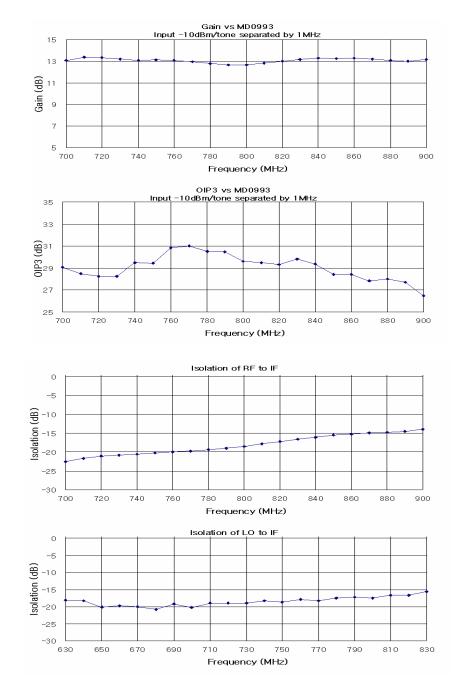
• Tel : 82-31-250-5011

rfsales@rfhic.com

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• Version 6.02





Test Condition: $RF = 700 \sim 900 MHz@-10 dBm$, $LO = 630 \sim 830 MHz@2 dBm$, IF = 70 MHz

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