Active Down Mixer MD2193

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-3

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.

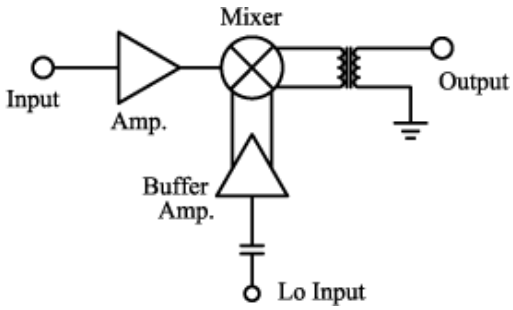
Specifications

(Operating Temperature: -30°C~+70°C)

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

Test Conditions : Ta=25°C, Vdd=5V, P_{LO}2dBm, IF=70MHz,

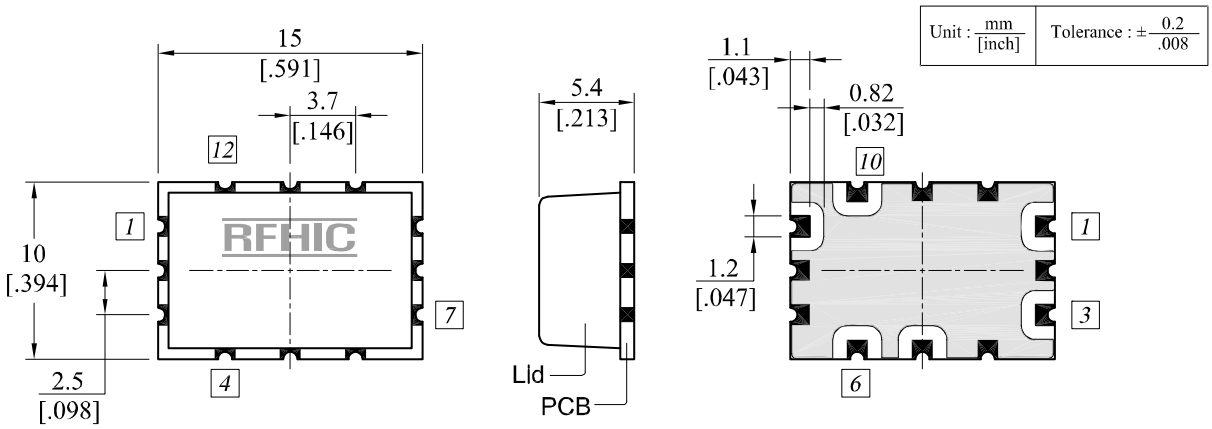
Functional Diagram



Functional Pin Layout

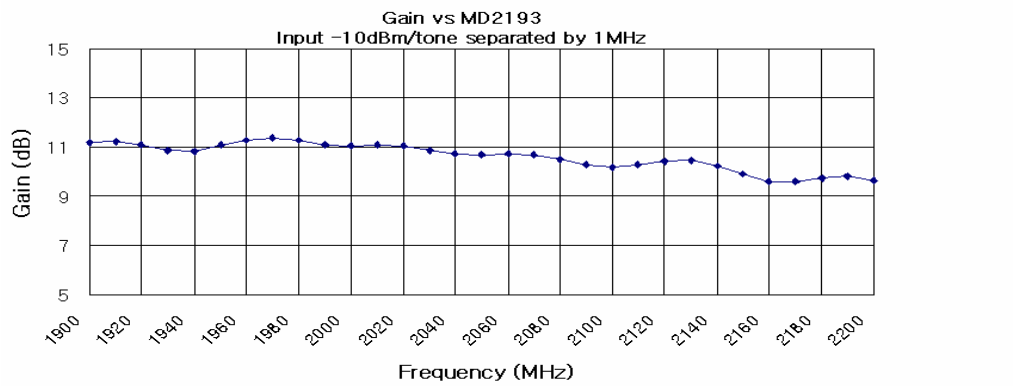
Pin No.	Function
6 or 10, AND 3	Vdd+5V
1	Input
9	Output
5	LO Input
2, 4, 6, 7, 8, 11, 12	Ground

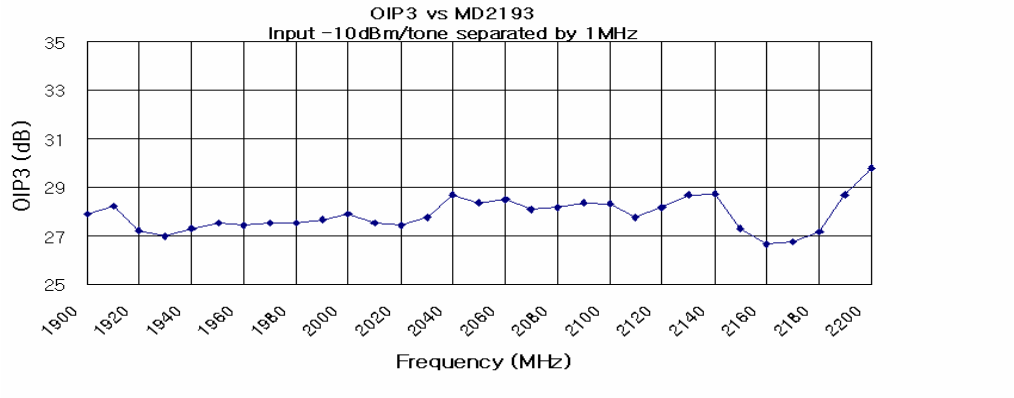
Package Dimensions (Type: HY-3)

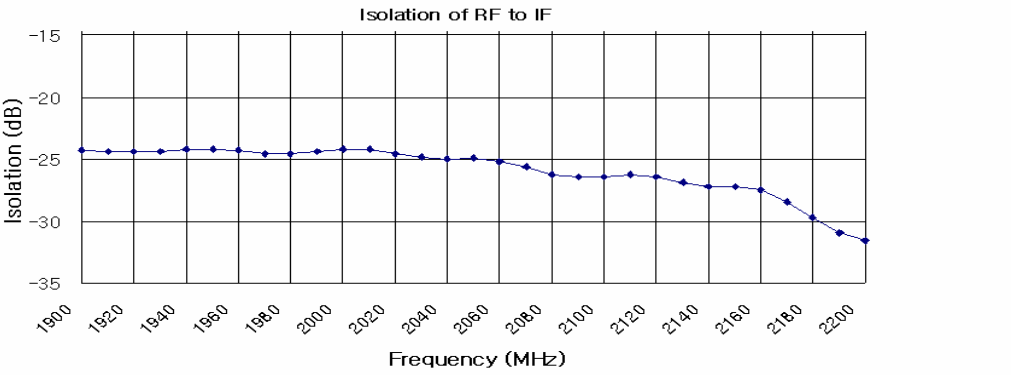


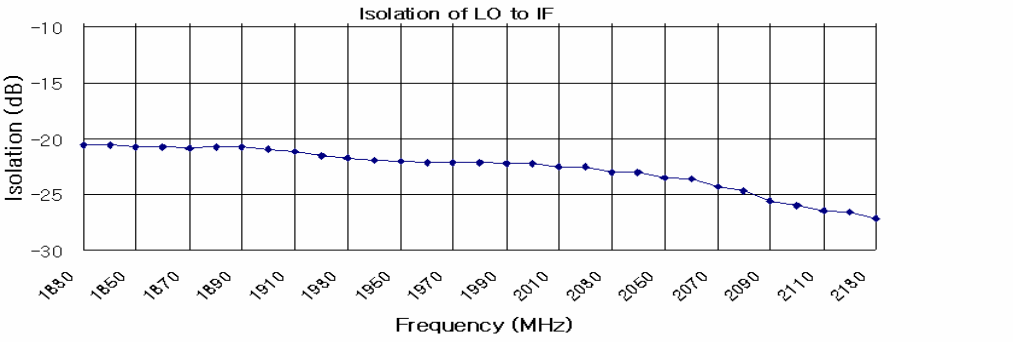
Top Side Bottom View

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

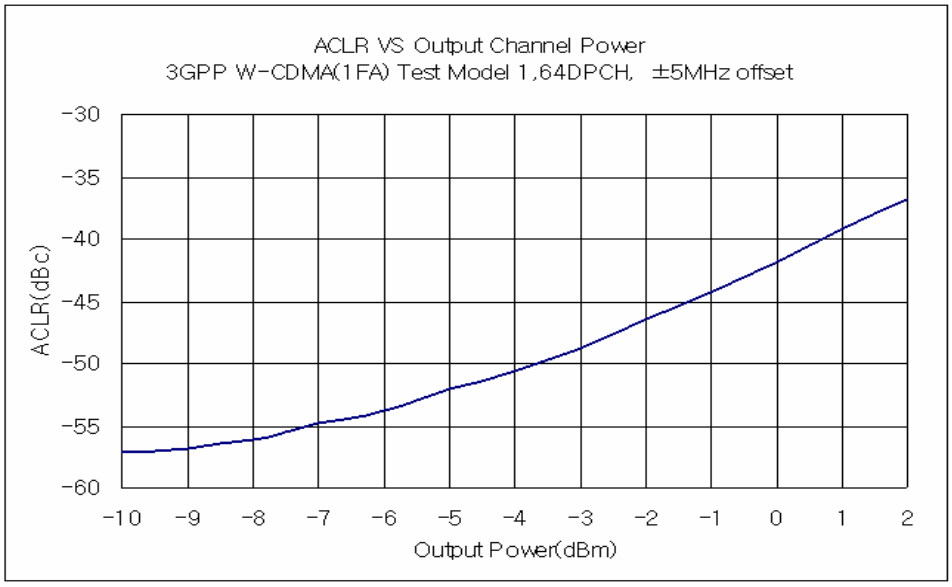








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