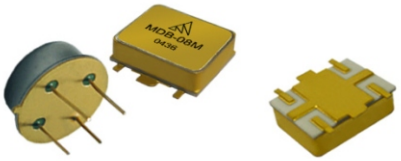
MDB-08/MDB-08M

Broadband Double-balanced Mixer

Features

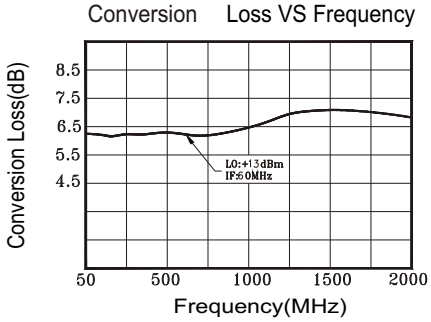
- LO drive level : +10dBm(Typ)
- LO&RF frequency range:50～2000MHz
- High port-to-port isolation
- Low Conversion Loss, 50 Ω impedance
- Hermetic TO-8C and SG03 package available
- Operating temperature range:-55℃～+85℃

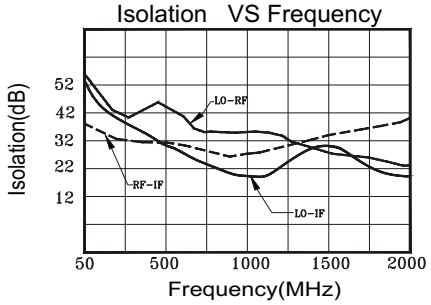


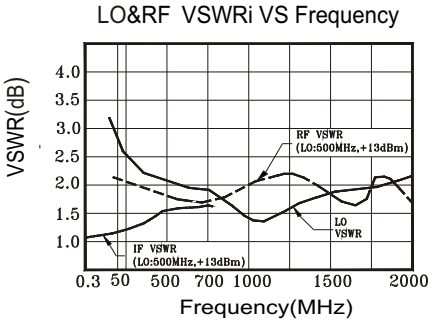
Specifications(measured in a 50Ω system, T_A=25℃)

Parameter		Symbol	Unit	Guaranteed	Typical
Frequency Range	LO&RF	f	MHz	50～2000	50～2000
	IF			DC～600	DC～700
Conversion Loss		C.L	dB	7. 5(50～500MHz)	6. 0(50～500MHz)
				8. 5(500～2000MHz)	7. 0(500～2000MHz)
Iso	LO-RF	Iso	dB	40(50～800MHz)	55(50～800MHz)
				25(800～2000MHz)	30(800～2000MHz)
	LO-IF			30(50～500MHz)	40(50～500MHz)
				15(500～2000MHz)	20(500～2000MHz)
	RF-IF			40(50～200MHz)	45(50～200MHz)
				25(200～2000MHz)	35(200～2000MHz)
1dB Compression point		P_{-1}	dBm	2	4
Input Intercept 3rd order point		IP3	dBm	—	14

Typical Performance

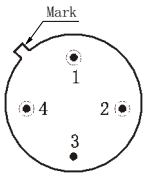




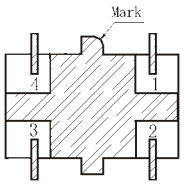


Absolute Maximum Ratings

RFInput Power : +17dBm
Storage Temp: +125℃



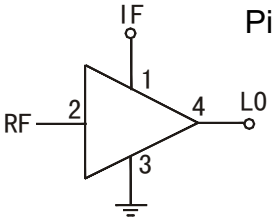
TO-8C
Bottom View



SG03
Bottom View

Application Notes:

1.LO drive level : +13dBm
2.Input/output pin should be connected to 50Ω microstrip.
3.MDB-08 : TO-8C package
MDB-08M :SG03 package
4.See assembly section for mounting information



Pin connection:
1.IF
2.RF
3.GND
4.LO
Metal case is ground

