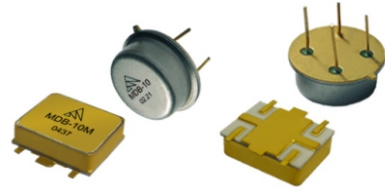


Features

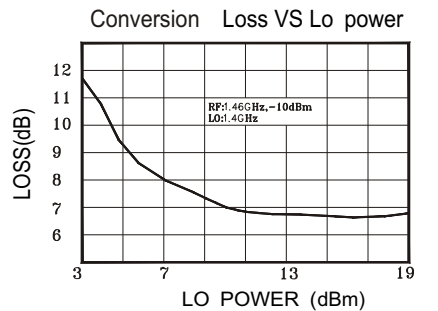
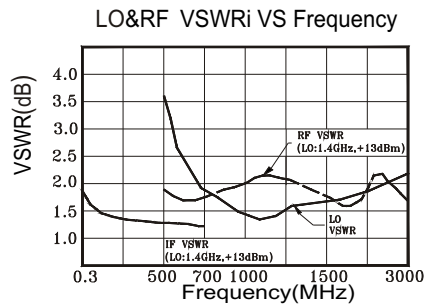
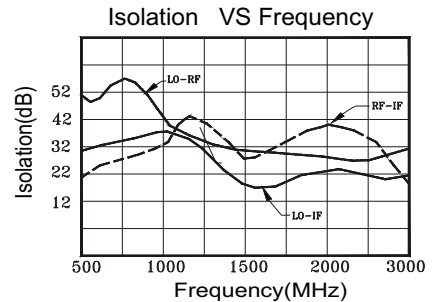
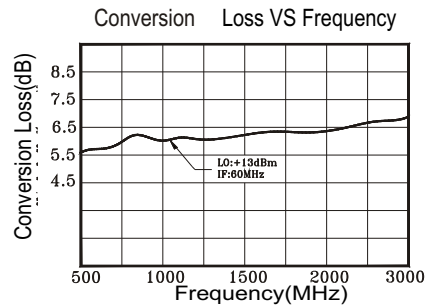
- LO drive level : +10dBm(Typ)
- LO&RF frequency range:500~3000MHz
- Low Conversion loss , High port-to-port isolation
- 50 Ω impedance High reliability
- Hermetic TO-8C and SG03 package available
- Operating temperature range:-55℃~+85℃



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

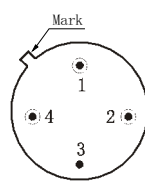
Parameter		Symbol	Unit	Guaranteed	Typical
Frequency Range	LO&RF	f	MHz	500~3000	500~3000
	IF			DC~1000	DC~1000
Conversion Loss		C.L	dB	7(500~1500MHz)	6(500~1500MHz)
				8.5(500~3000MHz)	6.5(500~3000MHz)
Iso	LO-RF	Iso	dB	35(500~1000MHz)	45(500~1000MHz)
				26(1000~2000MHz)	30(1000~2000MHz)
				20(2000~3000MHz)	25(2000~3000MHz)
	LO-IF			25(500~1000MHz)	30(500~1000MHz)
				14(1000~3000MHz)	18(1000~3000MHz)
				20(500~1000MHz)	24(500~1000MHz)
	RF-IF			25(1000~2500MHz)	30(1000~2500MHz)
				20(2500~3000MHz)	25(2500~3000MHz)
1dB Compression point		P-1	dBm	2	4
Input Intercept 3 rd order point		IP3	dBm	—	14

Typical Performance

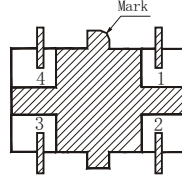


Absolute Maximum Ratings

RF Input Power : +17dBm
Storage Temp: +125℃



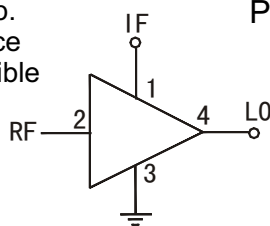
TO-8C
Bottom View



SG03
Bottom View

Application Notes :

1. LO drive level : +10dBm
2. Input/output pin should be connected to 50 Ω microstrip.
3. Land pattern should be placed as close to ground as possible for better RF grounding
4. MDB-10: TO-8C package
MDB-10M :SG03 package
5. See assembly section for mounting information



Pin connection :

1. IF
 2. RF
 3. GND
 4. LO
- Metal case is ground