

## Features

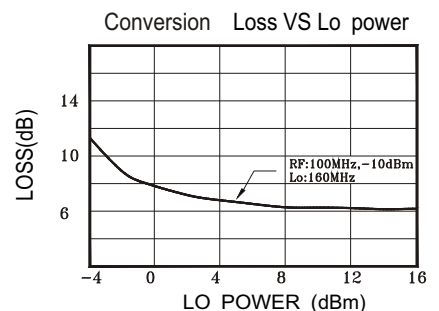
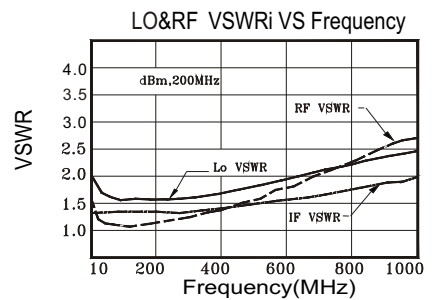
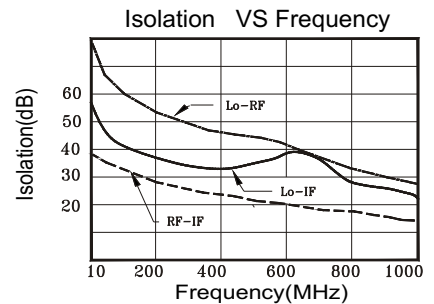
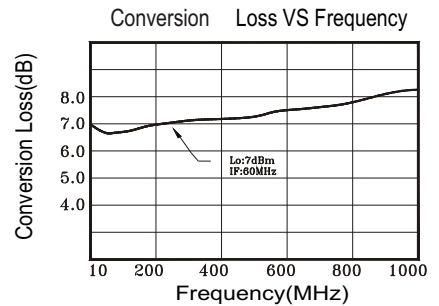
- LO drive level : +7dBm(typ)
- LO&RF frequency range:10~1000MHz
- Low insertion loss, High port-to-port isolation
- Low Conversion Loss, 50 Ω impedance
- Hermetic TO-8C, SC04, SG03 package available
- Operating temperature range:-55°C~+85°C



## Specifications (measured in a 50 Ω system, TA=25°C)

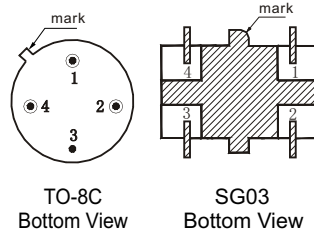
Parameter		Symbol	Unit	Guaranteed	Typical
Frequency Range	LO&RF	f	MHz	10~1000	—
	IF			DC~1000	—
Conversion Loss		C.L	dB	7.5(20~200MHz)	7.0(20~200MHz)
				8.0(200~600MHz)	7.5(200~600MHz)
				9.5(10~1000MHz)	8.5(10~1000MHz)
Iso	LO-RF	Iso	dB	50(10~100MHz)	70(10~100MHz)
				40(100~500MHz)	50(100~500MHz)
				20(500~1000MHz)	30(500~1000MHz)
	LO-IF			35(10~100MHz)	45(10~100MHz)
				30(100~500MHz)	35(100~500MHz)
				20(500~1000MHz)	25(500~1000MHz)
	RF-IF			25(10~200MHz)	30(10~200MHz)
				10(200~1000MHz)	20(200~1000MHz)
				—	—
1dB Compression point		P <sub>-1</sub>	dBm	0	2
Input Intercept 3 <sup>rd</sup> order point		IP3	dBm	—	12

## Typical Performance



## Absolute Maximum Ratings

RF Input Power : +13dBm  
Storage Temp: +125°C



## Application Notes :

1. LO drive level : +7dBm
2. Input/output pins should be connected to 50 Ω microstrip.
3. MDB-03: TO-8C package  
MDB-03M : SG03 package  
MDB-03S : SC04 package  
see assembly section for mounting method
4. See assembly section for mounting information

