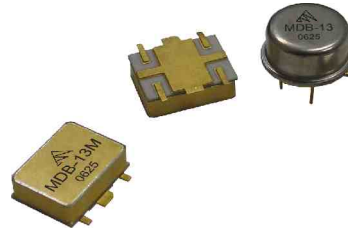


### Features

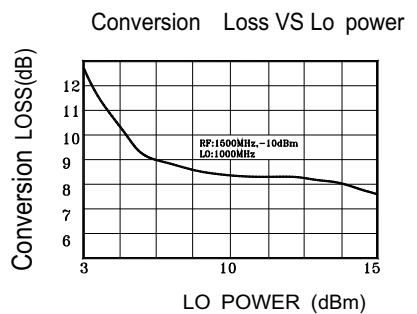
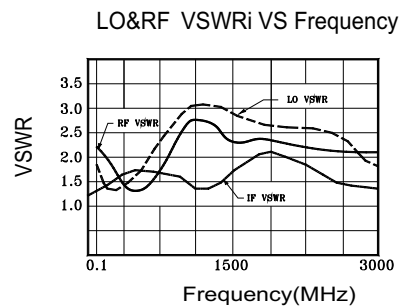
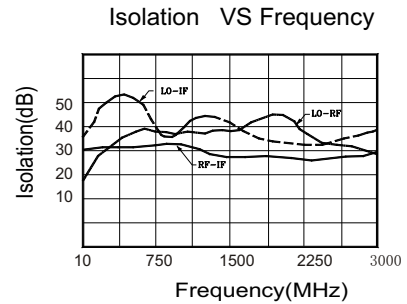
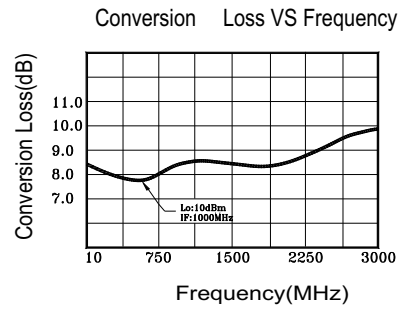
- LO drive level : +10dBm(Typ)
- LO&RF frequency range:10~3000MHz
- Low Conversion loss , High port-to-port isolation
- 50 Ω impedance High reliability
- Hermetic TO-8C and SG03 package available
- Operating temperature range:-55°C~+85°C



### Specifications ( measured in a 50 Ω system, T<sub>A</sub>=25°C )

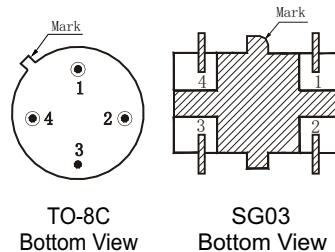
Parameter		Symbol	Unit	Guaranteed	Typical
Frequency Range	LO&RF	f	MHz	10~3000	10~3000
	IF			1~3000	0.5~3000
Conversion Loss		C.L	dB	8.0(50~500MHz)	7.5(50~500MHz)
				10.5( 500~2000MHz)	9.0( 500~2000MHz)
				11.5( 10~3000MHz)	10.0( 10~3000MHz)
Iso	LO-RF	Iso	dB	30(50~2000MHz)	35( 50~2000MHz)
				18(10~3000MHz)	25( 10~3000MHz)
	LO-IF			35( 10~1500MHz)	45( 10~1500MHz)
				30( 1500~3000MHz)	35(1500~3000MHz)
	RF-IF			30( 100~1500MHz)	32( 100~1500MHz)
				25(10~3000MHz)	28(10~3000MHz)
1dB Compression point		P <sub>-1</sub>	dBm	4.0	6.0
Input Intercept 3 <sup>rd</sup> order point		IP3	dBm	—	—

### Typical Performance



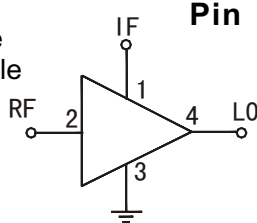
### Absolute Maximum Ratings

RF Input Power : +17dBm  
Storage Temp:+125°C



### Application Notes :

- 1.LO drive level : +10dBm
- 2.Input/output pin should be connected to 50 Ω microstrip.
- 3.Land pattern should be place as close to ground as possible for better RF grounding
- 4.MDB-13: TO-8C package  
MDB-13M :SG03 package
- 5.See assembly section for mounting information



### Pin connection :

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