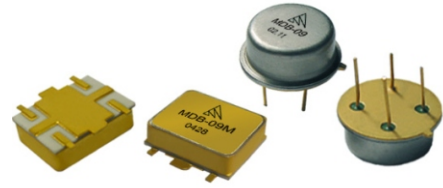


### Features

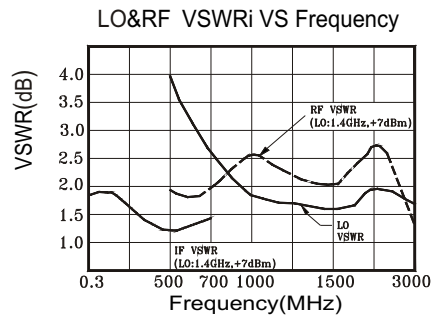
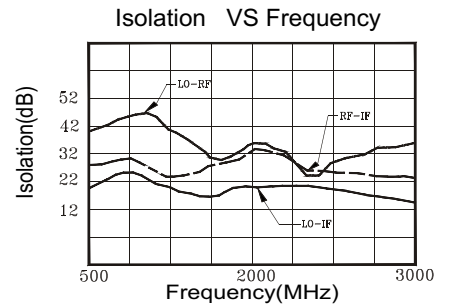
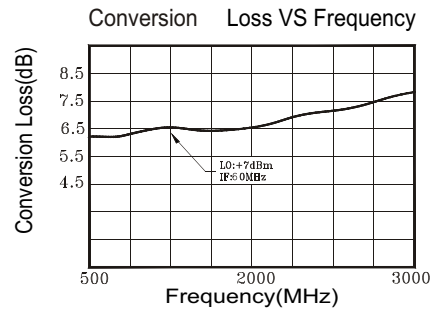
- LO drive level : +7dBm(Typ)
- LO&RF frequency range:500~3000MHz
- High port-to-port isolation
- Low Conversion Loss, 50 Ω impedance
- Hermetic TO-8C and SG03 package available
- Operating temperature range:-55°C~+85°C



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

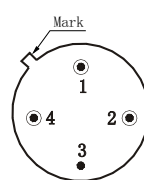
Parameter		Symbol	Unit	Guaranteed	Typical
Frequency Range	LO&RF	f	MHz	500~3000	500~3000
	IF			DC~600	DC~700
Conversion Loss		C. L	dB	7(500~1000MHz)	6( 500~1000MHz)
				8. 0(1000~2000MHz)	6. 5(1000~2000MHz)
				9. 0(2000~3000MHz)	8. 0(2000~3000MHz)
Iso	LO-RF	Iso	dB	35( 500~800MHz)	45( 500~800MHz)
				28( 800~2000MHz)	35( 800~2000MHz)
	LO-IF			20(2000~3000MHz)	25( 2000~3000MHz)
				20( 500~800MHz)	24( 500~800MHz)
RF-IF	14( 800~3000MHz)	20( 800~3000MHz)			
	20( 500~3000MHz)	32( 500~3000MHz)			
1dB Compression point		P <sub>-1</sub>	dBm	0	2
Input Intercept 3 <sup>rd</sup> order point		IP3	dBm	—	12

### Typical Performance

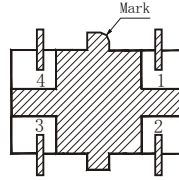


### Absolute Maximum Ratings

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



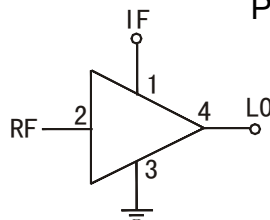
TO-8C  
Bottom View



SG03  
Bottom View

### Application Notes :

1. LO drive level : +7dBm
2. Input/output pin should be connected to 50 Ω microstrip.
3. MDB-09: TO-8C Package  
MDB-09M :SG03 package
4. See assembly section for mounting information



### Pin connection:

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

### Conversion Loss VS Lo power

