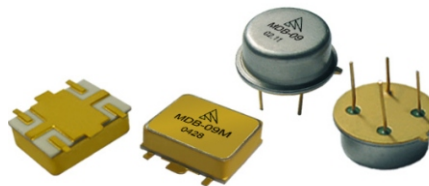


Features

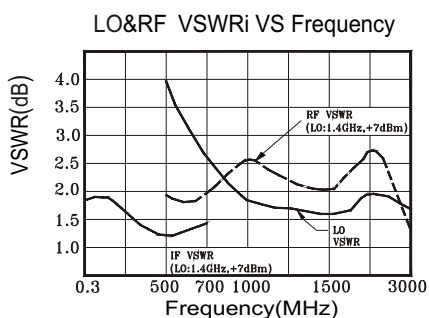
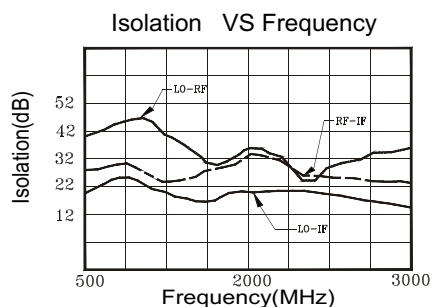
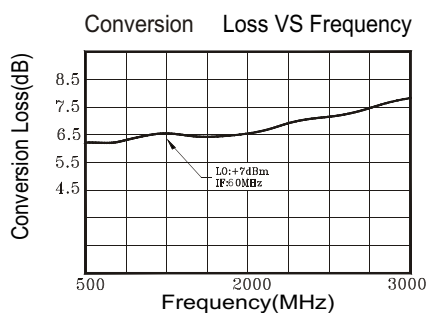
- LO drive level : +7dBm(Typ)
- LO&RF frequency range:500~3000MHz
- High port-to-port isolation
- Low Conversion Loss, 50 Ω impedance
- Hermetic TO-8C and SG03 package available
- Operating temperature range:-55°C~+85°C



Specifications (measured in a 50 Ω system, $T_A=25^\circ\text{C}$)

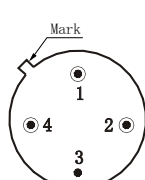
Parameter		Symbol	Unit	Guaranteed	Typical
Frequency Range	LO&RF	f	MHz	500～3000	500～3000
	IF			DC～600	DC～700
Conversion Loss		C. L	dB	7(500～1000MHz)	6(500～1000MHz)
				8. 0(1000～2000MHz)	6. 5(1000～2000MHz)
				9. 0(2000～3000MHz)	8. 0(2000～3000MHz)
Iso	LO-RF	Iso	dB	35(500～800MHz)	45(500～800MHz)
				28(800～2000MHz)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

Typical Performance

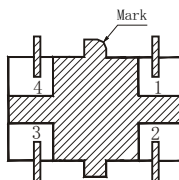


Absolute Maximum Ratings

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



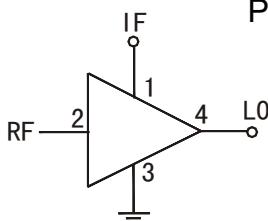
TO-8C
Bottom View



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

