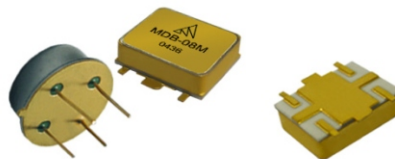


Features

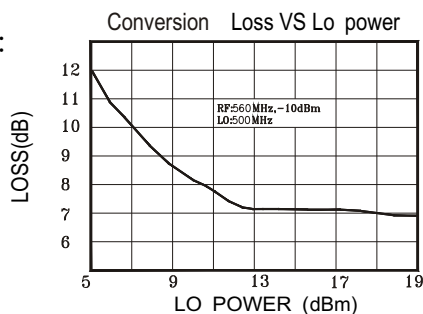
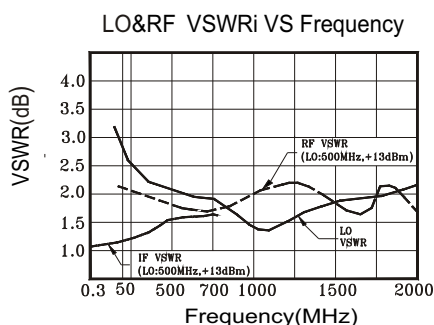
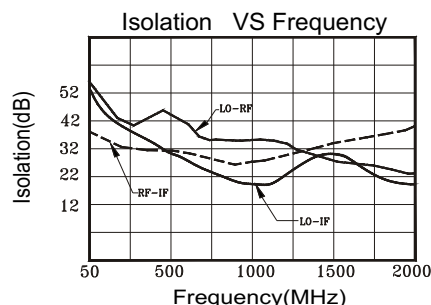
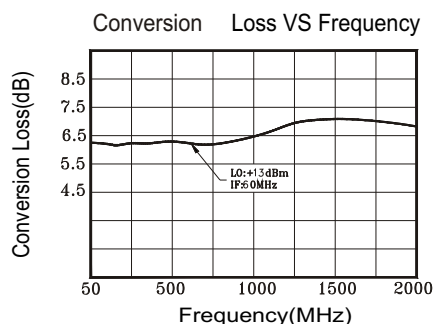
- LO drive level : +10dBm(Typ)
- LO&RF frequency range:50~2000MHz
- High port-to-port isolation
- Low Conversion Loss, 50 Ω impedance
- Hermetic TO-8C and SG03 package available
- Operating temperature range:-55°C~+85°C



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

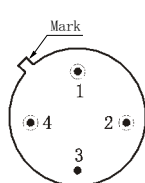
Parameter		Symbol	Unit	Guaranteed	Typical
Frequency Range	LO&RF	f	MHz	50~2000	50~2000
	IF			DC~600	DC~700
Conversion Loss		C. L	dB	7. 5(50~500MHz)	6. 0(50~500MHz)
				8. 5(500~2000MHz)	7. 0(500~2000MHz)
Iso	LO-RF	Iso	dB	40(50~800MHz)	55(50~800MHz)
				25(800~2000MHz)	30(800~2000MHz)
	LO-IF			30(50~500MHz)	40(50~500MHz)
				15(500~2000MHz)	20(500~2000MHz)
	RF-IF			40(50~200MHz)	45(50~200MHz)
				25(200~2000MHz)	35(200~2000MHz)
1dB Compression point		P- ₁	dBm	2	4
Input Intercept 3 rd order point		IP3	dBm	—	14

Typical Performance

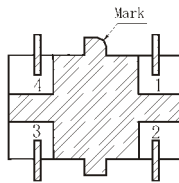


Absolute Maximum Ratings

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



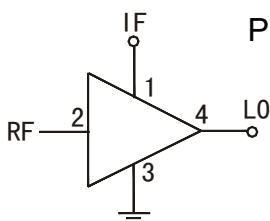
TO-8C
Bottom View



SG03
Bottom View

Application Notes :

1. LO drive level : +13dBm
2. Input/output pin should be connected to 50 Ω microstrip.
3. MDB-08: TO-8C package
MDB-08M :SG03 package
4. See assembly section for mounting information



Pin connection:

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