

Features

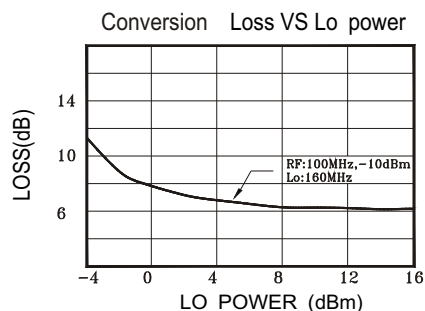
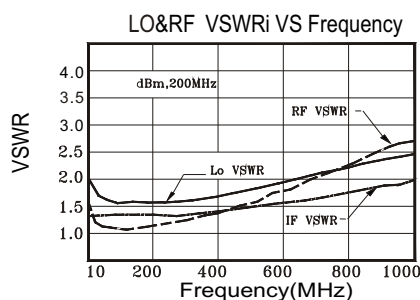
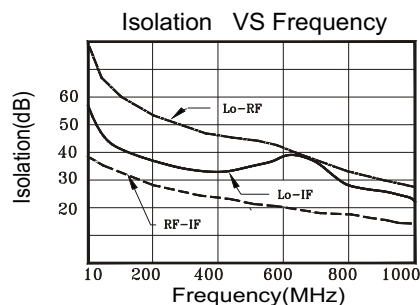
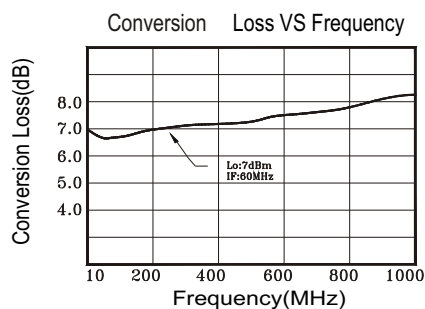
- LO drive level : +7dBm(typ)
- LO&RF frequency range:10~1000MHz
- Low insertion loss, High port-to-port isolation
- Low Conversion Loss, 50 Ω impedance
- Hermetic TO-8C, SC04, SG03 package available
- Operating temperature range:-55°C~+85°C



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

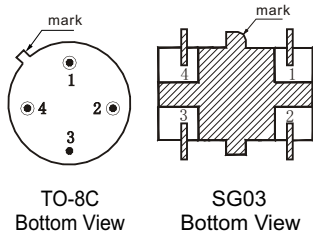
Parameter		Symbol	Unit	Guaranteed	Typical	
Frequency Range	LO&RF	f	MHz	10~1000	—	
	IF			DC~1000	—	
Conversion Loss		C. L	dB	7. 5(20~200MHz)	7. 0(20~200MHz)	
				8. 0(200~600MHz)	7. 5(200~600MHz)	
				9. 5(10~1000MHz)	8. 5(10~1000MHz)	
Iso	LO-RF	Iso	dB	50(10~100MHz)	70(10~100MHz)	
				40(100~500MHz)	50(100~500MHz)	
				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 ₋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



Application Notes :

1. LO drive level : +7dBm
2. Input/output pin 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

