

Features

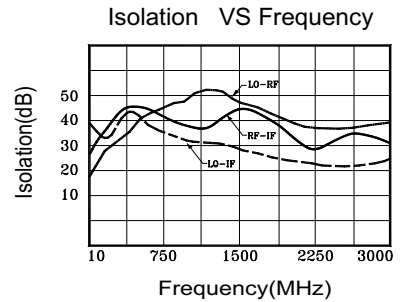
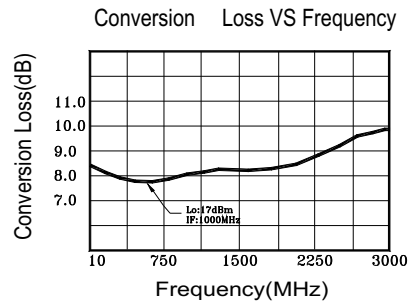
- LO drive level : +17dBm(Typ)
- LO&RF frequency range:10~3000MHz
- Low Conversion loss , High port-to-port isolation
- 50 Ω impedance High reliability
- Hermetic TO-8C and SG03 package available
- Operating temperature range:-55℃~+85℃



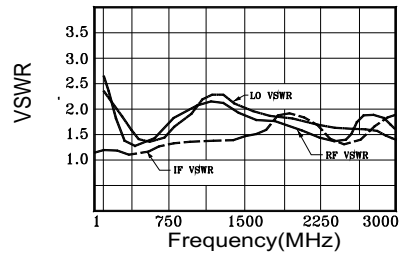
Specifications(measured in a 50 Ω system, T_A=25℃)

Parameter		Symbol	Unit	Guaranteed	Typical
Frequency Range	LO&RF	f	MHz	10~3000	10~3000
	IF			1~3000	0.1~3000
Conversion Loss	C.L	dB	8.0(50~500MHz)	7.5(50~1000MHz)	
			10.5(1000~2000MHz)	10(1000~2000MHz)	
			11.5(10~3000MHz)	11(10~3000MHz)	
Iso	LO-RF	Iso	dB	35(100~3000MHz)	40(100~3000MHz)
	LO-IF			18(10~100MHz)	25(10~100MHz)
				30(10~1000MHz)	35(10~1000MHz)
	RF-IF			15(1000~3000MHz)	25(1000~3000MHz)
1dB Compression point	P ₋₁	dBm	9.0	10.5	
Input Intercept 3 rd order point	IP3	dBm	—	20	

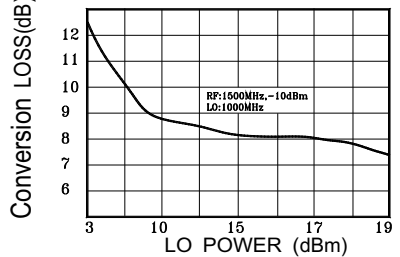
Typical Performance



LO&RF VSWRi VS Frequency

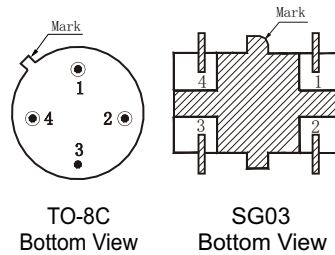


Conversion Loss VS Lo power



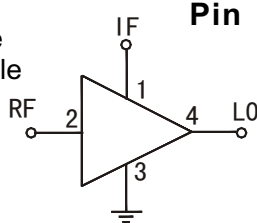
Absolute Maximum Ratings

RF Input Power : +25dBm
Storage Temp:+125℃



Application Notes :

- 1.LO drive level : +17dBm
- 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-14: TO-8C package
MDB-14M :SG03 package
- 5.See assembly section for mounting information



Pin connection :

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