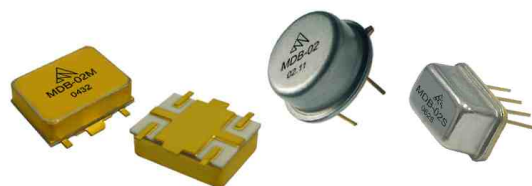


Features

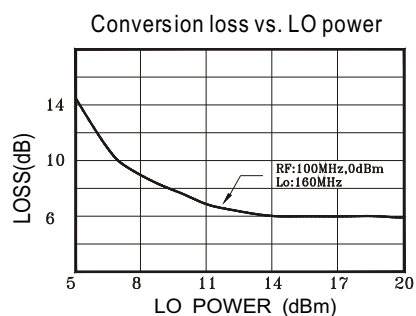
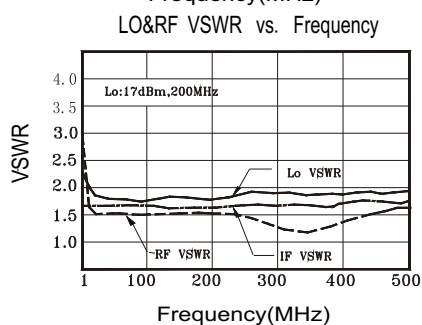
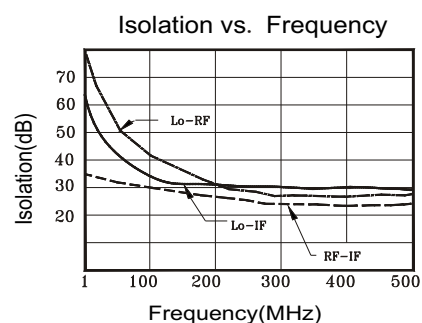
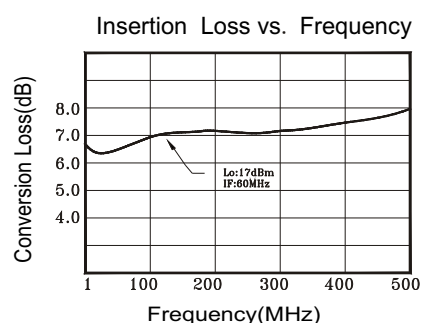
- LO drive level : +17dBm(typ)
- LO&RF frequency range:1~500MHz
- Low insertion loss, High port-to-port isolation
- Low Conversion Loss, 50 Ω impedance
- Hermetic TO-8C, SC04, SG03 package available
- Operating temperature range:-55°C~+85°C



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

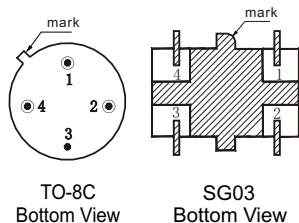
Parameter		Symbol	Unit	Guaranteed	Typical
Frequency Range	LO&RF	f	MHz	1~500	1~600
	IF			DC~500	DC~600
Conversion Loss		C.L	dB	7.5(5~50MHz)	7.0(5~100MHz)
				8.0(100~200MHz)	7.5(100~200MHz)
				9.0(1~500MHz)	8.5(1~500MHz)
Iso	LO-RF	Iso	dB	50(1~10MHz)	70(1~10MHz)
				30(10~100MHz)	40(10~100MHz)
				25(100~500MHz)	30(100~500MHz)
	LO-IF			40(1~10MHz)	60(1~10MHz)
				30(10~100MHz)	40(10~100MHz)
				25(100~500MHz)	30(100~500MHz)
	RF-IF			25(1~50MHz)	30(1~50MHz)
				20(50~500MHz)	25(50~500MHz)
1dB Compression point		P ₋₁	dBm	10	12
Input Intercept 3 rd order point		IP3	dBm	—	21

Typical Performance



Absolute Maximum Ratings

RF Input Power : +23dBm
Storage Temp:+125°C



Application Notes:

1. LO drive level : +17dBm
2. Input/output pins should be connected to 50 Ω microstrip.
3. MDB-02: TO-8C package
MDB-02M : SG03 package
MDB-02S : SC04 package
see assembly section for mounting method
4. See assembly section for mounting information

