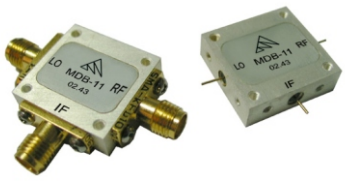
MDB-11

Broadband Double-balanced Mixer

Features

- LO drive level : +10dBm(Typ)
- LO&RF frequency range:2. 6～6. 0GHz
- Low Conversion loss , High isolation
- 50 Ω impedance matching High reliability
- Removable SMA connectors
- Operating temperature range:-55℃～+85℃

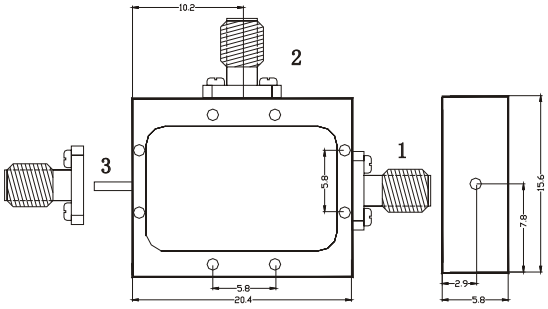


Specifications(measured in a 50 Ω system, T_A=25℃)

Parameter		Symbol	Unit	Guaranteed	Typical
Frequency Range	LO&RF	f	GHz	2. 6～6. 0	2. 6～6. 0
	IF			DC～1. 0	DC～1. 0
Conversion Loss		C. L	dB	7. 0(2. 0～4. 0GHz)	6. 0(2. 0～4. 0GHz)
				8. 0(4. 0～6. 0GHz)	7. 0(4. 0～6. 0GHz)
Iso	LO-RF	Iso	dB	35(2. 0～3. 0GHz)	40(2. 0～3. 0GHz)
				20(3. 0～6. 0GHz)	25(3. 0～6. 0GHz)
	LO-IF			16(2. 0～6. 0GHz)	20(2. 0～6. 0GHz)
	RF-IF			20(2. 0～6. 0GHz)	30(2. 0～6. 0GHz)
1dB Compression point		P_{-1}	dBm	2	4
Input Intercept 3rd Order point		IP3	dBm	—	13

Absolute Maximum Ratings

RF Input Power : +17dBm Storage Temp:＋125℃



MDB-11

Pin connection:
1. LO
2. IF
3. RF
Metal case is ground

Application Notes:

1.LO drive level : +10dBm(Typ)
2.In put/out put pin should be connected to 50 Ω microstrip.
3.The bottom Should be place as close to ground as possible for better RF grounding

Typical Performance

