

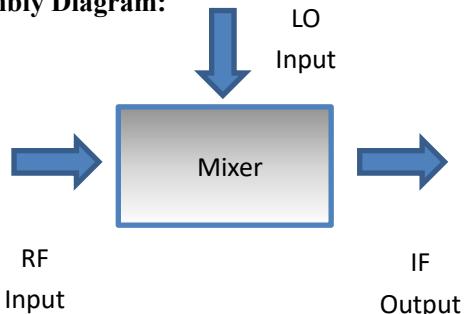
## M-FMD10@Schottky diodes MMIC

Schottky fundamental mixer module

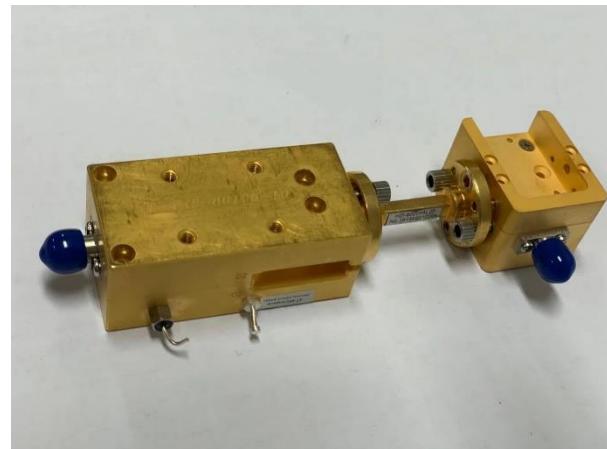
### Feature:

- LO Input Freq: 90GHz~110GHz
- LO Power: 5 mW
- RF Input Freq: 90GHz~110GHz
- RF Power: ≤0.1mW
- IF Output Frequency: 20GHz
- SSB Conversion Loss: ≤9dB(Typical)
- Made in China
- MOQ: 2pcs
- Chip or Package module available

### Assembly Diagram:



Notes: Module size: 25mm\*24mm\*20mm



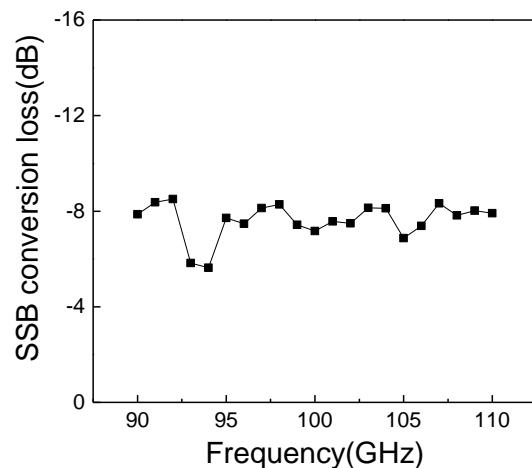
### Electrical Characteristics:

Item	Min	Typ	Max	Unit
Output Freq	0.01	10	20	GHz
Input Freq	90	100	110	GHz
RF Input Power	—	0.01	8	mW
LO Input Power	3	8	13	mW
SSB Conversion Loss	7	8	9	dB

### Maximum Ratings:

LO Input Power	13dBm
RF Input Power	13dBm
Storage Temp	-60°C~150°C
Operating Temp	-30°C~85°C

### Measured Performance:



**Tips:**

- 1) Storage: The chip must be placed in a container with static protection function and under nitrogen environment.
- 2) Cleaning treatment: Bare chips must be operated and used in a clean environment, which is prohibited. Liquid cleaners clean the chips.
- 3) ESD handling precautions: Please strictly abide by ESD protection requirements to avoid electrostatic damage.
- 4) Routine operation: Use a vacuum chuck or precision pointed tweezers to take the chip. Avoid touching the chip surface with tools or fingers during the operation.
- 5) Power-up sequence: When powering up, first add the grid voltage and then the leakage voltage; when powering down, go first Leakage voltage, then remove the gate voltage.
- 6) Please contact us by [sales@teraradar.com](mailto:sales@teraradar.com) if any questions.