

M-SMD04@Schottky diodes MMIC

Schottky subharmonic mixer module

Feature:

- LO Input Freq: 110GHz
- LO Power: 5 mW
- RF Input Freq: 190GHz~230GHz
- RF Power: $\leq 0.1\text{mW}$
- IF Output Frequency: 20GHz
- SSB Conversion Loss: $\leq 9\text{dB}$ (Typical)
- Made in China
- MOQ: 2pcs
- Chip or Package module available

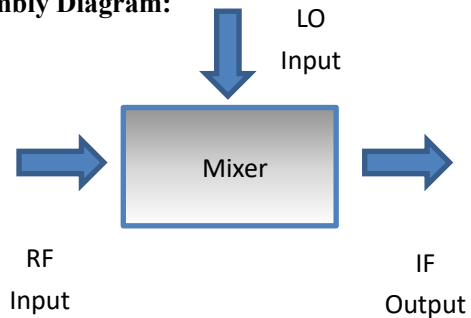
Electrical Characteristics:

Item	Min	Typ	Max	Unit
Output Freq	0.01	10	20	GHz
Input Freq	190	220	230	GHz
RF Input Power	—	0.01	8	mW
LO Input Power	3	5	8	mW
SSB Conversion Loss	-7	-9	-10	dB

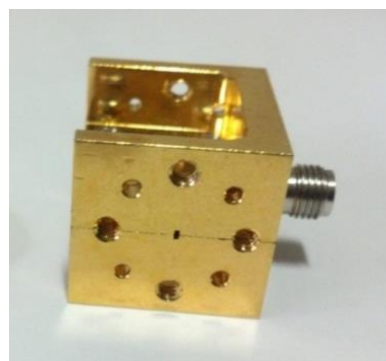
Maximum Ratings:

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

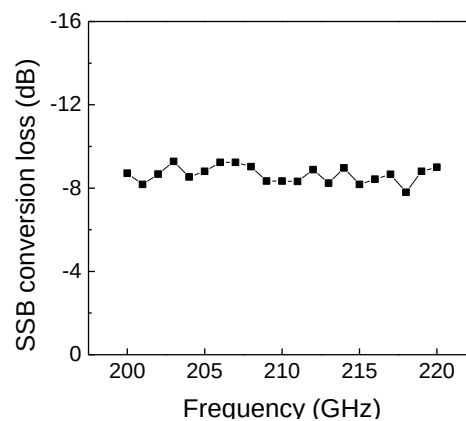
Assembly Diagram:



Notes: Module size: 20mm*20mm*20mm



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 if any questions.