

## MMFM092096-B8 Frequency Multiplier

### Description

- Composition: The frequency multiplier mainly performs multiple frequency multiplication of microwave signals to generate local oscillator or transmit signals. It consists of frequency multiplier diodes and quartz substrate circuits.
- Features:
  - High multiplication efficiency
  - Broadband frequency multiplication



### Applications

- LO multiplier chain for terahertz receiver systems
- Terahertz up-conversion and transmission systems

### Absolute Maximum Ratings 1 (TA=25°C)

| Symbol           | Parameter           | Value    |
|------------------|---------------------|----------|
| P <sub>in</sub>  | Input Signal Power  | 25dBm    |
| T <sub>stg</sub> | Storage Temperature | -55~85°C |

### Electrical Specifications Table

|                               |              |
|-------------------------------|--------------|
| Model                         | MFM092096-B8 |
| Input Frequency (GHz)         | 11.5-12      |
| Output Frequency (GHz)        | 92-96        |
| Output Power (dBm)            | Typ10,Max 12 |
| Multiplication Efficiency (%) | —            |
| Multiplication Factor         | 8            |
| Input Interface               | SMA          |
| Output Interface              | WR10         |
| Type                          | Active       |