

MFM295300-B3 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_{in}	Input Signal Power	25dBm
T_{stg}	Storage Temperature	-55~85°C

Electrical Specifications Table

Input Frequency (GHz)	98-100
Output Frequency (GHz)	294-300
Output Power (dBm)	—
Multiplication Efficiency (%)	Typ 10,Max 12
Multiplication Factor	3
Input Interface	WR10
Output Interface	WR3
Type	Passive