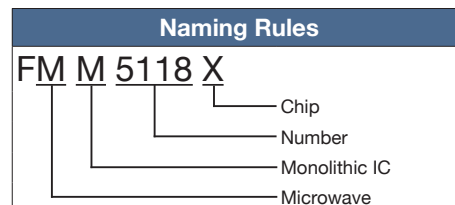


Ku to V Band Multiplier MMICs

These multipliers were developed for the local oscillator of a radio link transmitter/receiver. This MMIC is designed for a wide frequency range with high conversion gain.

Features

- Wide Frequency Range
- High Conversion Gain

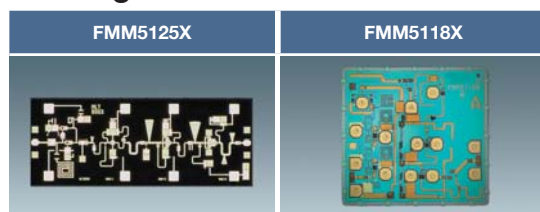


Specifications

Ta=+25°C

Part Number	RF Frequency Range f (GHz)	Drain-Source Voltage VDD (V)	Conversion Gain (dB)	Current Consumption (mA)	Function
FMM5118X	20–32	5	14	130	Doubler
FMM5125X	57–64	5	-5	100	Quadrupler

Package Photo

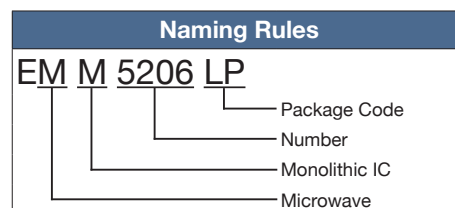


Oscillator MMICs

EMM5206LP is an oscillator for Ku-band to K-band sensor applications. This device shows negative resistance in the frequency band and operates with a single positive bias voltage.

Features

- High Output Power: Pout = 5dBm @Vdd = 4V (Typ.)
- Low Power Consumption: Idd = 20mA @Vdd = 4V (Typ.)
- Low Phase Noise: $\Delta n = -100\text{dBc/Hz}$ @100kHz offset, fosc = 24GHz
- Low Spurious Level: RJ2nd = -40dBc (Typ.)



Specifications

Ta=+25°C

Part Number	Oscillation Frequency fosc (GHz)	Drain-Source Voltage VDD (V)	Output Power Pout dBm (Typ.)	Drain Current Idd mA (Typ.)	Phase Noise at 100kHz offset Δn dBc (Typ.)	2nd Harmonic Rejection RJ2nd dBc (Typ.)	Outline/Package Code	Application
EMM5206LP	15–24.5	4	5	20	-100	-40	LP	Microwave Sensor

Package Photo

