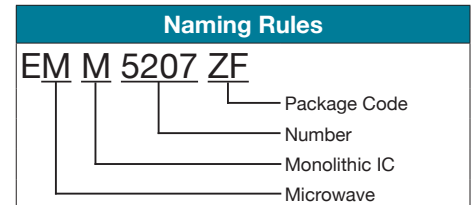


Voltage Controlled Oscillator MMICs

EMM5207ZF uses a newly developed VCO MMIC technology. This device achieves low phase noise performance while using MESFET technology. EMM5207ZF is mounted in a low cost plastic package to meet the demand for low cost Ku-band VSAT systems.

Features

- On Chip Resonator
- Low Phase Noise: $\text{Ø}_n = -90\text{dBc/Hz}$ @100kHz offset
- High Frequency Modulation Linearity
- f/2 PLL Monitor Port



Specifications

Ta=+25°C

Part Number	Oscillation Frequency fosc (GHz)	Drain-Source Voltage Vcc, VccTx, VccRx (V)	Tuning Voltage (V)	Total Supply Current mA (Typ.)	Output Power Pout dBm (Typ.)	Phase Noise at 100kHz offset Ø_n dBc (Typ.)	Outline/Package Code	Application
EMM5207ZF	12.72–13.85	5	-1.5 – -12	115	Tx: 14, Rx: 10.5, Monitor: -3	-95	ZF	Ku-Band VSAT

Tx Frequency Range: 12.72GHz to 13.2GHz, Rx Frequency Range: 12.8GHz to 13.85GHz, RFOut/2 Frequency Range: 6.36GHz to 6.925GHz

