

VMOC100M-1212-S-05-I-PC

FEATURES

- ♦ High Frequency Stability
- ♦ Wide Temperature Range
- ♦ Ultra Low Phase Noise

TYPICAL APPLICATIONS

- ♦ Test & Measurement
- ♦ TR Module
- ♦ Base Stations
- ♦ Synthesizer



SPECIFICATIONS

PARAMETER	PERFORMANCE	UNIT	CONDITION
Nominal Frequency	100	MHz	
Input Voltage	5.0	V	VCC±5%
Frequency Accuracy	≤±0.3	ppm	Control voltage 2.5V±10%, @25°C
Control Voltage	0 ~ 5.0	V	
Frequency Pulling Range	≥±0.5	ppm	Central control voltage 2.5V
Linearity	10%		
Tuning Slope	Positive		
Operating Temperature	-40 ~ +70	°C	
Storage Temperature	-55 ~ +90	°C	
Aging	≤±5.0	ppb/day	After 30days of continuous operation
Frequency Vs Temperature Stability	≤±0.3	ppm	@-40°C ~ +70°C, frequency deviation from the 25°C reference
Frequency Vs. Voltage	≤±20	ppb	Vcc±5%
Frequency Vs. Load	≤ ±20	ppb	Load ±5%
Output Waveform	Sine		
Output Power	≥ 5	dBm	
Harmonics	≤-30	dBc	
Spurious	≤-80	dBc	
Output Load	50	Ω	
Phase Noise	≤-90	dBc/Hz	10 Hz
	≤-125		100 Hz
	≤-152		1 kHz
	≤-165		10 kHz
	≤-168		100 kHz
	≤-170		1 MHz
Stable Current	≤ 150	mA	@25°C
Initial Current	≤ 350	mA	±0.5ppm after 1 minute (power-on) @25°C
Profile Size	12.7 ×12.7×5	mm	

SIZE and PIN DEFINITIONS

[illegible]