

VMOC10M-3627-S-05/12-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
Frequency	10.000	MHz	
Power Supply	+5/+12	V	Vcc±5%
Operating Temperature	-40 to +70	°C	
Storage Temperature	-50 to +90	°C	
Frequency Adjustment Range	≥±0.3	ppm	Voltage control pin voltage range 0-5V
Frequency Temperature Stability	≤0.1	ppm	40 °C~70 °C
Frequency Accuracy	≤±0.05	ppm	
Frequency Load Characteristics	≤±5	ppb	50Ω±5%
Frequency Voltage Characteristics	≤±5	ppb	Vcc±5%
Pout	≥+8	dBm	50ΩLoad
Harmonic	≤-35	dBc	50ΩLoad
Clutter	≤-75	dBc	50ΩLoad
Output Waveform	Sine		
Load	50	Ω	
Short Term Frequency Stability (Allen bias)	≤5×10 ⁻¹³	1s	Test after 1 hour of power on, place the crystal oscillator in a sealed space
Phase Noise	-118	dBc/Hz	1Hz
	-143		10Hz
	-160		100Hz
	-168		1KHz
	-170		10KHz

	-170		100KHz
	-170		1MHz
Aging Rate	≤0.1	ppm/year	Start testing after 30 days of continuous work
Power Consumption	≤1.8	W	@25 °C
@25 oC Turn On	≤4	W	Turn On for 5 minutes, 0.1ppm

SIZE and PIN DEFINITIONS

Size: ≤36×27×12.7mm

Tolerance: ±0.2mm

