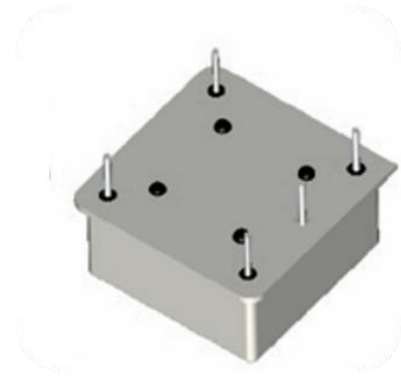


VMOC100M-2525-S-12-I-PC

FEATURES

- ◆ Low Phase Noise
- ◆ Small Hermetically Sealed Package
- ◆ Tight Frequency Stability
- ◆ Low Power Consumption
- ◆ Fast Warm-up Time
- ◆ Electrical Frequency Tuning Input



TYPICAL APPLICATIONS

- ◆ Telecom Systems
- ◆ Microwave Communication
- ◆ Clock Reference for Microwave Signal Source
- ◆ Test & Measurement

SPECIFICATIONS

PARAMETER	PERFORMANCE	UNIT	CONDITION
Output Frequency	100	MHz	
Power Supply	12	V	$V_{cc} \pm 5\%$
Control Voltage	0 to 5	V	
Operable Temperature	-40 to +70	°C	
Storage Temperature	-50 to +85	°C	
Frequency Adjustment Range	$\geq \pm 0.5$	ppm	
Frequency Temperature Stability	$\leq \pm 0.2$	ppm	
Frequency Accuracy	$\leq \pm 0.2$	ppm	Voltage control pin voltage range 2.5V@25°C
Frequency Adjustment Linearity	10%		
Frequency Voltage Characteristics	$\leq \pm 5$	ppb	$V_{cc} \pm 5\%$
Output Power	$\geq +16$	dBm	
Harmonic	≤ -30	dBc	
Spurious	≤ -70	dBc	
Output Waveform	Sine		
Load	50	Ω	
Phase Noise (Max)	-110	dBc/Hz	10Hz
	-140		100Hz
	-170		1kHz

	-178		10kHz
	-183		100kHz
	-183		1MHz
	-183		10MHz
Aging Rate	≤0.3	ppm/year	Turn on power after 30 days of continuous work
Power Consumption	≤2	W	@25°C
Turn On Consumption	≤5	W	@25°C
@25°C Warm-up Time	≤5	minutes	

PIN CONNECTIONS

PIN	FUNCTION
1	RF OUTPUT
2	GROUND
3	VCO INPUT OR NOT CONNECTED
4	REFERENCE VOLTAGE OR NOT COONECTED
5	+VDC

OUTLINE DRAWING

Size: $\leq 25.4 \times 25.4 \times 12.7$

Tolerance: 0.2mm

