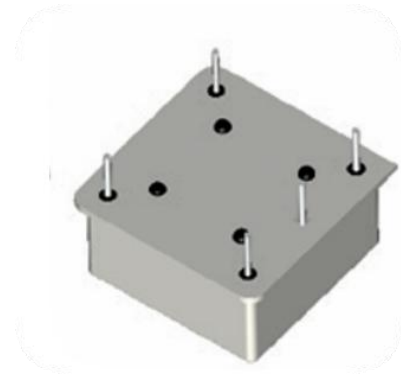


VMOC100M-2525-S-05-I-PC

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

FREQUENCY OUTPUT SPECIFICATIONS

Parameters	Min.	Typ.	Max.	Unit	Conditions
Output Frequency	-	100	-	MHz	
Initial Accuracy	-0.3	-	+0.3	ppm	@+25±1°C Test 5 minutes after power-on
Waveform	-	Sine	-	-	
Output Power	-	+15	-	dBm	
Load	-	50	-	Ω	
Harmonic	-30	-	-	dBc	
Spurious	-70	-	-	dBc	

POWER SUPPLY AND COMSUMPTION

Parameters	Min.	Typ.	Max.	Unit	Conditions
Supply Voltage	4.75	5	5.25	V	
Power Consumption	-	-	4	W	Starting up @+25°C
	-	-	1.5	W	Stable state @+25°C

ENVIRONMENTAL CONDITIONS

Parameters	Reference Value	Conditions
Operating Temperature	-40°C~+70°C	
Storage Temperature	-55°C~+85°C	

FREQUENCY STABILITY

Parameters	Min.	Typ.	Max.	Unit	Conditions
Frequency vs. Temperature	-0.1	-	+0.1	ppm	-40~+70°C
Aging/day	-0.005	-	+0.005	ppm	
Aging/year	-0.2	-	+0.2	ppm	After 30 days
Frequency vs. Voltage	-5	-	+5	ppb	For $\pm 5\%$ supply voltage variation
Frequency vs. Load	-10	-	+10	ppb	For $\pm 5\%$ load impedance variation
Phase Noise	-	-110	-	dBc/Hz	10Hz
	-	-140	-		100Hz
	-	-170	-		1kHz
	-	-175	-		10kHz
	-	-180	-		100kHz
	-	-180	-		1MHz

FREQUENCY TUNABILITY

Parameters	Min.	Typ.	Max.	Unit	Conditions
Adjustment Range	-	± 0.5	-	ppm	Relative to the center voltage
Control Voltage	0	-	+5	V	
Slope	Positive slope			-	
Center Voltage	-	+2.5	-	V	
Linearity	-10	-	+10	%	

REFERENCE VOLTAGE

Parameters	Min.	Typ.	Max.	Unit	Conditions
Voltage	+4	-	+5	V	Voltage
Internal Resistance	-	10	-	k Ω	Internal Resistance

PIN CONNECTIONS

PIN	FUNCTION
1	RF output
2	GND
3	Voltage controlled port
4	NC (or Vref output)
5	Voltage supply

OUTLINE DRAWING

