



Features and Benefits

- 285.714MHz Frequency
- 5V Supply voltage
- Sine wave Output
- ±100ppb Stability Vs -20C ---+70C
- 50x50x25mm Size

Typical Applications

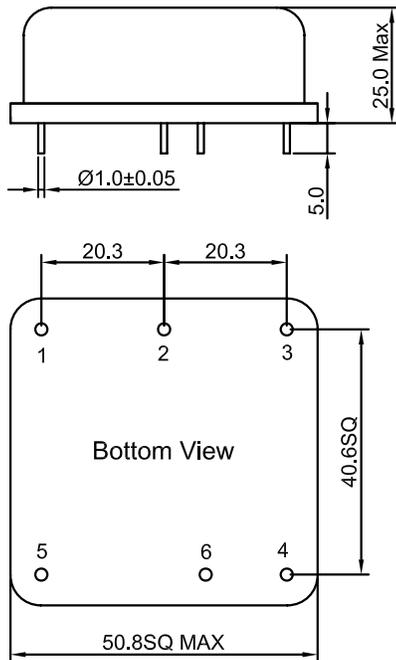
- Synthesizers
- SATCOM System
- Portable Applications

Description

OCXO5050AM-285.714MHz-A-V offers good frequency stability and low phase noise performance.

Mechanical Drawing & Pin Connections

Drawing No: MD1800&1-1



Pin Connections:

Pin#	Symbol	Function
1	Vc	Control Voltage
2	Vref	Reference Output
3	RF Out	RF Output
4	GND	Ground
5	Vdc	Supply Voltage
6	N.C.	Not Connect

Unit in mm
1mm = 0.0394 inches



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F _{nom}			285.714		MHz	
Output				Sine wave			
Load				50		ohm	
Harmonic					-30	dBc	
Output power				3	5	dBm	
Power Supply							
Voltage	V _{cc}		4.75	5	5.25	V	
Current		Warm up			900	mA	
		Steady state			200	mA	
Tuning voltage			0	2	4	V	
Pulling range			-0.5		+0.5	ppm	
Frequency Stability							
Versus temperature				±100		ppb	
Versus change in supply voltage					10	ppb	
Versus change in load					10	ppb	
First Year Aging					300	ppb	
Aging/day					5	ppb	
Phase noise		@1KHz			-110	dBc/Hz	
Environmental Conditions							
Operating temperature range			-20°C to 70°C				
Storage temperature range			-55°C to 100°C				