



Features and Benefits

Small package – 1"x1"x0.5" (25x25x12.7 mm)
Low phase noise
Available as RoHS

Typical Applications

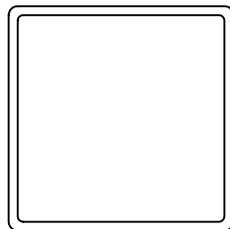
SATCOM System
Cellular Base Stations
Radar Applications

Description

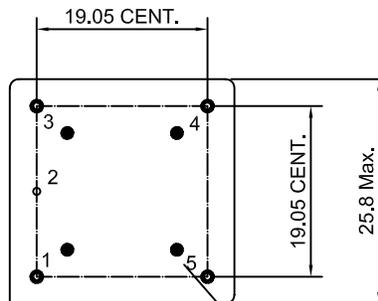
OCXO2525AN-10MHz-A-V offers high frequency stability, low long-term aging and low phase noise, all in a compact package to suit the different communication needs.

Mechanical Drawing & Pin Connections

Drawing No: MD160042-1

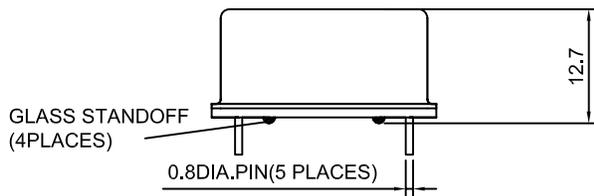


VIEW FROM TOP



VIEW FROM BOTTOM

NUMBERS FOR REFERENCE ONLY
(NOT STAMPED ON UNIT)



GLASS STANDOFF
(4 PLACES)

0.8 DIA. PIN (5 PLACES)

12.7

Pin	Signal
1	R.F. OUTPUT
2	GND
3	Control Votage
4	Reference Voltage
5	Supply Voltage

Unit in mm
1mm = 0.039 inches



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F _{nom}			10		MHz	
RF Output							
Signal Waveform			HCMOS				
Load	R _L		10kohm//15pf				
H-Level Voltage	V _H		4			V	
Duty Cycle			45		55	%	
Power Supply							
Reference Voltage VREF Output				4.5		V	
Supply Voltage	V _S	±5%		5		V	
Warm-up Time	T _{up}	At +25°C to Δf/f=1e-7			120	s	
Power Consumption		Steady state, +25°C			200	mA	
		Warm-up			600	mA	
Frequency Adjustment Range							
Electronic Frequency Control (EFC)			±0.5			ppm	
EFC voltage	V _c		0		4.5	V	
EFC Slope			positive				
With external potentiometer			20			kOhm	
Frequency Stability							
Versus Operating Temperature Range				±10		ppb	
Versus Load				±5		ppb	
Versus supply voltage				±5		ppb	
Aging Per Day				±0.5		ppb	
Aging 1 st Year				±50		ppb	
Allan Variance		1s			5	e-12	
SSB Phase noise		1Hz			-90	dBc/Hz	
		10Hz			-120	dBc/Hz	
		100Hz			-140	dBc/Hz	
		1kHz			-145	dBc/Hz	
		10kHz			-150	dBc/Hz	
Environmental, Mechanical Conditions							
Operating temperature range	-20°C to 70°C						
Storage temperature range	-55°C to 80°C						
Humidity @ 25°C	98%						
Mechanical shock	Acceleration Duration:100g,3±1ms						
Vibration	Frequency Range Acceleration:10 to 500Hz,10g						