2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

Features and Benefits

Frequency range: 80MHz Supply voltage: 5.0V Steady current: 40mA Max Output waveform: Sinewave

Frequency stability vs. operating temperature: ±100ppb

Aging: ±0.2ppm per year

Operating temperature: -40°C to +85°C

Size: 16x15.3x9.5mm

Typical Applications

Portable Wireless Communications Mobile Test equipment Synthesizers Battery Powered Application

Description

OCXO3317AW-80MHz-6-7-7-2-2 offers high frequency stability, low long-term aging and low phase noise, all in a compact package to suit the different communication needs.

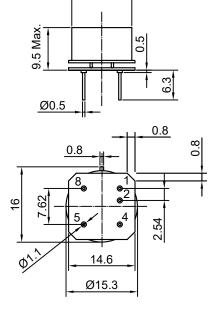
Mechanical Drawing & Pin Connections

Drawing No:

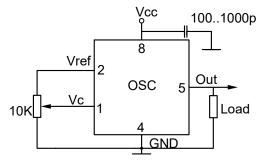
MD23003. -1

Physical dimensions

Ø12.7



Schematic connections



Pin	Signal
1	Electrical tuning
2	Reference voltage
4	GND
5	RF Out
8	+V Supply

Unit in mm

1mm = 0.0394 inches

Dynamic Engineers Inc.

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Specifications

Oscillator	Comm	Condition	Value			I I mit	Note						
Specification	Sym	Condition	Min.	Typ.	Max.	Unit	Note						
Operational Frequency	f_0			80		MHz							
RF Output													
Signal Waveform					Sinewave								
Level			+5.0	+7.0		dBm	+						
Load			45	50	55	ohm							
Harmonics level					-25	dBc							
Power Supply													
Reference Voltage	Vref		4.1	4.2	4.3	V							
Output resistance of Vref				91		ohm							
Supply Voltage	Vcc		4.75	5.0	5.25	V							
Warm-up current		V _{CC} =5.0V	140		220	mA							
Continuous current		at +25°C, V _{CC} =5.0V		35	40	mA							
Frequency warm-up time		to df/f=1e-7 at		60	90	sec							
Frequency warm-up time		+25°C ref at 1h		00	90	Sec							
Frequency Adjustment Range													
	(f∟-f)/f	Vc=0 V			-1	ppm	+						
Electronic Frequency Control (EFC)	(f-f)/f	Vc=Vc0		0		ppm							
,	(f _H -f)/f	Vc=Vref	+1			ppm	+						
EFC voltage	Vc		0		4.2	V							
Input impedance				11kohm//5pF									
Input BW		-3dB level		160		Hz							
Preset control voltage	V _{C0}	disconnected Vc pin	1.9	2.1	2.3	V							
Frequency Stability													
Versus Operating Temperature Range		ref +25°C			±100	ppb	+						
Initial Tolerance @+25°C	$(f-f_0)/f_0$	V _C = V _{C0}	-0.2		+0.2	ppm	+						
Versus supply voltage		ref V _{CC} typ.			±5	ppb							
Versus load		5% change			±5	ppb							
		10Hz		-95									
CCD Dhana mains (atatis values are for		100Hz		-125		dBc/Hz							
SSB Phase noise (static values are for		1KHz		-147									
reference only and are subject to		10KHz		-165									
change.)		100KHz		-168									
Aging Per Day													
3 5 7	After 30 days of				±2.0	ppb							
Aging 1 st Year		operation			±0.2	ppm							
Maximum ratings, environmental, mech					l								
Operating temperature range	-40°C to +85°C												
Storage temperature range	-60°C to +85°C												
Power voltage	-0.5 to 6.0 V												
Control voltage	-1.0 to 6.0 V												
Air flow velocity	0.5 m/s m												
Humidity	Non-condensing 95%												
Mechanical shock	Per MIL-S	TD-202, 30G, 11ms											
	RTCA/DO-160,section 8, curve B												
Vibration	KICADO	-100,3ection o, curve b				Hand solder only – not reflow compatible 260°C 10s (on pins)							
Soldering conditions		,		60°C 10s (on pin	s)								

Note: Included in the test data