

Features and Benefits

HCMOS output signal
Operating temperature -40°C to +85°C
Less than ±0.5 ppb per day aging
Less than ± 50 ppb per year aging
SC Cut Crystal

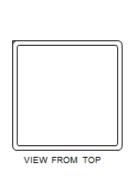
Typical Applications

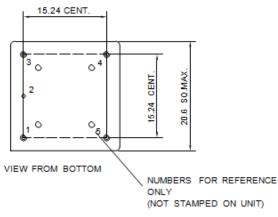
SDH/SONET, Telecommunication base station Test and measurement equipment Synthesizer, Digital switch, Reference Timing Circuit

Mechanical Drawing & Pin Connections

Drawing No:

MD160045-1





PIN CONNECTION 1

GLASS STANDOF (4 PLACES)	0.45 DIA PIN(5 PLACES)	5.08
	SIDE VIEW	

Pin	Signal
1	CONTROL VOLTAGE
2	REFERENCE VOLTAGE
3	GND
4	R.F. OUTPUT
5	VCC

Unit: mm 1mm=0.039inch

PIN CONNECTION 2

Pin	Signal
1	vcc
2	R.F. OUTPUT
3	GND
4	CONTROL VOLTAGE
5	REFERENCE VOLTAGE

OCXO2020S



Specifications

	OCXO	Curre	Condition		Value		Heit	Note
	Specification	Sym	Condition	Min.	Тур.	Max.	Unit	Note
Frequency	Range	F ₀			10.000000		MHz	
RF Outpu	t							•
Output Wa	aveform				Rectangular			
Level					HCMOS			
Output Le	vel"1"			+3.5			V	
Output Lev	vel"0"					+0.5	V	
Load					15		pF	
Duty Cycle	9		@+2.0V	45	50	55	%	
Spurious						-60	dBc	
Power Su	pply							
Voltage		Vcc		4.75	5	5.25	V	3.3V input voltage is available.
Current			Warm-up			500	mA	
Power			Steady State			1.0	W	@+25°C
Reference	e Voltage							,
Reference				3.8	4.0	4.2	V	
Load	<u> </u>			9			Kohm	
Frequenc	y Control*							,
			VCO @0			-0.5	ppm	
Tuning Ra	nge			.0.5		0.0		4
Caratral Va	lta aa	1/2	VCO @4V	+0.5	2	4	ppm V	
Control Vo	ortage	Vc		0	∠ Positive	4	V	
Input Impe	donos			100	Positive		Kohm	
Frequenc				100			KOHH	
Vs. Ambie	nt		-30°C to +70°C			+/-10	ppb	Ref. to +25°C, Refer to Freq. Stability Vs Temp. Range table.
Vs. Supply	Voltage Change		+/-5% change			+/-0.5	ppb	
Warm-up			In 3 minutes @+25°C			+/-50	ppb	Ref. to 1hour
	Per Day		After 30 Days			+/-0.5	ppb	
Aging	Per Year					+/-50	ppb	
	10 Years					+/-0.3	ppm	
Phase No	ise							
			@10Hz			-115	dBc/Hz	
Phase Noise			@100Hz			-135	dBc/Hz	
1110011000		@1KHz			-145	dBc/Hz		
			@10KHz			-150	dBc/Hz	

Table 1:

Temperature Range vs. Stability Availability				
Temperature range (°C)	±5ppb	±10ppb	±20ppb	
-30 to +70	Available	Available	Available	
-40 to +85	Available	Available	Available	