

Dynamic Engineers Inc.

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

OCXO2525S-10MHz-B-V Š[¸Áj @œ^Ë;[ã^Á@ã @Á œæàããĉ ÁJÔÝUÁ

Features and Benefits

Highstability up to ±5 ppbÁver -30°C to +70°C Very low phase noise up to -150dBc/Hz @ 10KHz Low aging up to ±0.5 ppb/day 10MHz frequency

Typical Applications

Stratum 3E clock systems Cellular Base Station Microwave Applications Radar Reference Instrumentation

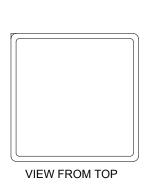
Description

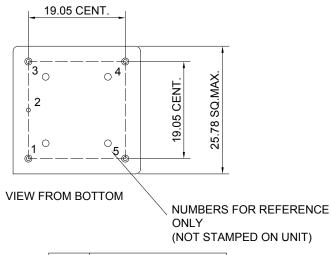
Akustomized high stability OCXO with low phase noise technology for optimal performance.

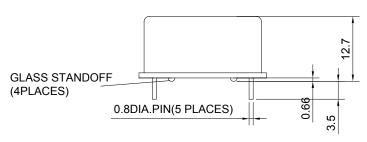
Mechanical Drawing & Pin Connections

Drawing No:

MD160042-1







Pin	Signal			
1	R.F. OUTPUT			
2	0 VOLTS&CASE			
3	VCO INPUT			
4	REFERENCE VOLTAGE			
5	+V Supply			

Unit: mm 1mm=0.039inch



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Specifications

Specifications						
Output (PIN = "RF C		-		11. 14	-	O and I'd and
Parameter	Min.	Тур.	Max	Unit	Test	Condition
Frequency Range		10.000000		MHz		
					@ +25°C ±1°C	
Initial Accuracy	-0.1		+0.1	ppm	After turn on power 15	
	U. 1		0	PP	≤ 90 days following date	
14/		0.			VCO input at Center Vo	otage ±0.001V
Waveform		Sine wave				
Level	+6	+8	+10	dBm		
Load		50		Ω		
Harmonics			-30	dBc		
Spurious			-60	dBc		
Input Power (PIN = '						
Parameter	Min.	Тур.	Max	Unit	Test	Condition
Voltage	+4.75	+5.0	5.25	V		
Current			800	mA	@ turn on	
Steady State			1.3	W	@ +25°C	
Reference Voltage (_				
Parameter	Min.	Тур.	Max	Unit	Test Condition	
Voltage	+3.8	+4.0	+4.2	V	Over temperature range -30°C to +70°C	
Load	9			kΩ	2.51 tomporataro range	
Frequency Stability						
Parameter	Min.	Тур.	Max	Unit	Test Condition	
Ambient		±5		ppb	Referenced to 25°C	
		0°C to +70°C	1	°C		
Aging	-0.5		+0.5	ppb	Per day, at time of shipment	
Daily	-0.5		+0.5	ppb	After 30 days	
Yearly	-50		+50	ppb		
10 years	-0.3		+0.3	ppm		
Voltage	-0.5		+0.5	ppb	±5% change	
Short Term			0.05	ppb/s	Root Allan variance	
Load	-0.5		+0.5	ppb	±5% change	
Warm-up	-10		+10	ppb	In 10 minutes at	Referenced to 1 hour
-			10	770	+25°C ±1°C	13.0.0.000 10 1 11001
Phase Noise						
@ 1Hz		-95	-90			
@ 10Hz		-125	-120			
@ 100Hz		-140	-135	dBc/Hz		
@ 1KHz		-148	-145			
@ 10KHz		-152	-150			
Electrical Frequency						O and little and
Parameter	Min.	Тур.	Max	Unit		Condition
Tuning Range			-0.5	ppm	VCO @ min. voltage	Referenced to frequency
	+0.5			ppm	VCO @ max. voltage	at nominal center voltage
Control Voltage	€/************************************		V			
Slope		Positive	1			
Center Voltage		+2.5		V	Note: When not connec	· ·
_		2.0			internally held at this vo	oltage
Linearity	-10		+10	%		
Input Impedance	100			kΩ		
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Environmental						
Parameter	Reference Standard	Test Condition				
Operating temperature range	-30°C to +70°C	Output maintained over this temperature range. Other requirements of this specification may not be met when operating outside the specified temperature range				
Storage temperature range	-55°C to +105°C					
Humidity	MIL-STD-202, Method 103 Test Condition A	95% RH @ +40°C, non-condensing, 240 hours				
Shock (non-operating) MIL-STD-202, Method 213, Test Condition J		30g, 11ms, half-sine				
Vibration (non-operating)	MIL-STD-202, Method 201	0.06" Total p-p, 10 to 55Hz				

Please contact Dynamic Engineers Inc. for further details.