

Dynamic Engineers Inc.

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

Features and Benefits

26MHz low consumption clipped sine wave output 2.8V power supply; 3.3mA maximum -1H5dBc/Hz @ 1KHz offset

Typical Applications

Mobile Radio GPS Reference Beidou Navigation Systems

Mechanical Drawing & Pin Connections

Drawing No: MD140026-2

DIMENSIONS







PIN FUNCTIONS

Pin	Funttion Control Voltage GND				
#1					
#2					
#3	Output				
#4	Supply Voltage				



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High performance SMD TCXO

Recommended soldering pattern

*To ensure optional oscillator performance place a by-pass capacitor of 0.1uF as close to the part as possible between Vdd and GND pads.

Dynamic Engineers, Inc.

Rev.1

Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside; such as data tables and graphs without notification to potential customers who may have earlier revisions in their possession.



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Specifications

Oscillator Specification		Sym Condition	Value			Unit	Noto	
			Condition	Min.	Тур.	Max.	Onit	NOLE
Nominal Frequency		Fnom			26.000000		MHz	
Output	Output Waveform		DC Couple clipped sine wave		Clipped sine wave			
	Output Voltage Level			0.8		2.0	Vp-p	
	Output Load				10Kohm//10pF			
	Start Up Time					2.0	ms	
Power S	Supply							
Supply Voltage		V _{cc}		2.7	2.8	2.9	V	
Supply Current			At maximum supply voltage			3.3	mA	
Freque	ncy Control*							
Control Voltage Range		Vc		0.5	1.5	2.5	V	
Pulling Range			Reference to VCON at 1.5V	+/-5.0)		ppm	
Vcon Input Impedance			Measured between VCON and GND	100			KOhm	
Linearity						10	%	
Freque	ncy Stability							
VS. Ten	nperature		Referenced to the midpoint between minimum and maximum frequency value	-0.28		+0.28	ppm	
Nominal Frequency Tolerance			Frequency @25°C, 1hour after 2 times reflow.	-2.0		+2.0	ppm	
VS. Supply Voltage			Supply voltage varied +/-0.1V at 25°C	-0.2		+0.2	ppm	
Load Se	ensitivity		+-10% load change	-0.2		+0.2	ppm	
20 Year	s Aging		Over 20 years		//////////////////////////////////////			
			10Hz		-90		dBc/Hz	
			100Hz		-115		dBc/Hz	
SSB Phase noise (typ.)			1KHz		-135		dBc/Hz	
			10KHz		-152		dBc/Hz	
			100KHz		-155		dBc/Hz	
Environ	mental Conditions	-						
Parame	Parameter Reference Std.			Test Condition				
Operatir	ng temperature range	-40°C to +85°C						
Storage	temperature range	-55°C to +125°C						
Mechanical Shock MIL-STD-883 2002 Condition B JESD22-B104 Condition B			1500G, half-sine, 0.5ms, each axis for 3 times					
Vibratio	n	MIL-STD-883 2007 Condition A JESD22-B103 Condition 1			10-2000Hz, 1.52mm, 20G, each axis for 4hrs			
Therma	nermal Shock MIL-STD-883 1010 Condition B JESD22-A104 Condition B			-55°C, 125°C; soak time is 10 mins, with total 200 cycles.				

Test Circuit



Rev.1