

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

Frequency range: 55MHz Supply voltage: 5.0V Steady current: 4.0mA/Max Output waveform: Clipped sinewave Frequency stability vs. operating temperature: ±1.0ppm Aging: ±3.0ppm/20 years Phase noise@100KHz: -155dBc/Hz Operating temperature: -40°C to +85°C Size: 20x13x7.5mm

Typical Applications

UHF Synthesizers SATCOM System Portable Microwave Applications

Description

TCXO2013BE-55MHz-A offers wide temperature operation from -40°C to +85°C with outstanding frequency stability and low phase noise performance.

Mechanical Drawing & Pin Connections

20.7 MAX

15.24±0.3

10.7±0.5

#1

#14

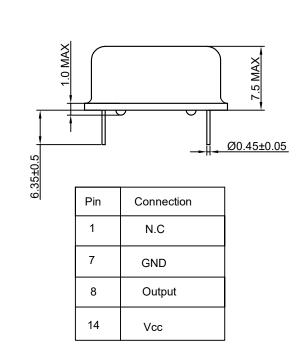
62±0.3

13.06 MAX

4-Ø1.8

 5.35 ± 0.5

#8



Drawing No: MD160067-2

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



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Specifications

Oscillator Specification		0	Condition		Value			Nete
		Sym		Min.	Тур.	Max.	Unit	Note
Operational Frequency		F _{nom}			55		MHz	
Clipped sinewave	Level			1.0Vp-p			V	
	Output Load				10kohm//10pF			
Power Supp	bly							
Voltage		V _{cc}	±5%		5.0		V	
Current Consumption						4.0	mA	
Frequency	Stability						1	
Versus temperature			-40°C to +85°C,			±1.0	ppm	
Initial Tolerance at 25°C						±0.5	ppm	
Versus change in supply		±5%			±0.05	ppm		
voltage			1400/			10.05		
Versus change in load			±10%			±0.05	ppm	
20 Years Aging			BM0			±3.0	ppm	
Phase Jitter (12KHz to 20MHz)			RMS		100	1.0	ps	
Phase Noise			10Hz		-100			
			100Hz		-130			
			1000Hz		-145		dBc/Hz	
			10KHz		-154			
			100KHz		-155			
Environmer	ntal Conditions							
Operating temperature range		-40°C to +85°C						
Storage tem	perature range	-55°C to +	125°C					