Dynamic Engineers Inc.

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

TCXO2013BE-100MHz-B High stability 100MHz HCMOS TCXO

Features and Benefits

Frequency range: 100MHz Supply voltage: 3.3V Steady current: 25mA/Max Output waveform: HCMOS

Frequency stability vs. operating temperature: ±0.28ppm

Aging: ±3.0ppm/20 years

Operating temperature: -40°C to +85°C

Size: 20x13x7.5mm

Typical Applications

UHF Synthesizers SATCOM System Portable Microwave Applications

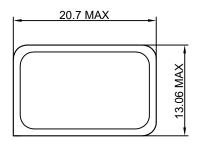
Description

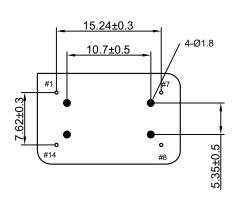
TCXO2013BE-100MHz-B offers wide temperature operation from -40°C to +85°C with outstanding frequency stability and low phase noise performance.

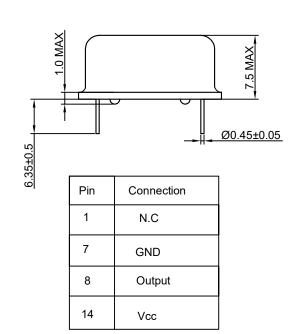
Mechanical Drawing & Pin Connections

Drawing No: MD16

MD160067-2









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Specifications

Oscillator Specification		Comm	Condition	Value			11mis	Note
		Sym		Min.	Тур.	Max.	Unit	Note
Operational Frequency		F _{nom}			100		MHz	
HCMOS	High Level			0.9Vcc			V	
	Low Level					0.1Vcc	V	
	Duty Cycle			45		55	%	
	Tr/Tf					8.0	ns	
	Output Load				15		pF	
Power Supp	oly							
Voltage		V _{cc}	±5%		3.3		V	
Current Consumption						25	mA	
Frequency	Stability							
Versus temperature			-40°C to +85°C			±0.28	ppm	
Initial Tolerance at 25°C						±0.5	ppm	
Versus change in supply voltage			±5%			±0.05	ppm	
Versus change in load			±10%			±0.05	ppm	
20 Years Aging						±3.0	ppm	
Phase Jitter (12KHz to 20MHz)			RMS			1.0	ps	
Environmen	ntal Conditions							
Operating temperature range		-40°C to +85°C						
Storage temperature range		-55°C to +1	25°C					