H7LC%%*69S<7ACG

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

Features and Benefits

Frequency range: 1KHz--800MHz Supply voltage: 3.3V or 5.0V Steady current: 15-50mA Max Output waveform: HCMOS

Frequency stability vs. operating temperature: 0.5ppm

Aging: 1.0ppm per year

Phase noise@100KHz: -145dBc/Hz Operating temperature: -40°C to +85°C

Size: 11.4x9.6x4.5mm

Typical Applications

UHF Synthesizers SATCOM System Portable Microwave Applications

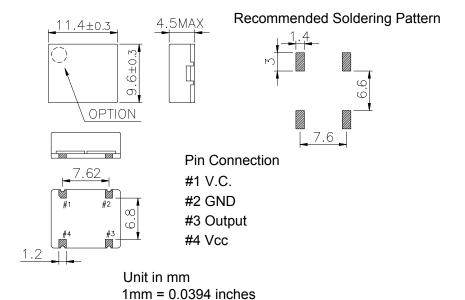
Description

TCXO1196BE_HCMOS offers wide temperature operation with outstanding frequency stability and low phase noise performance.

Mechanical Drawing & Pin Connections

Drawing No:

A8 &\$\$\$) \$!&





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H7 LC%% * 6 9 S< 7 A CG 4PAD SMD Package HCMOS TCXO

Specifications

Oscillator	Condition	Value			Unit	Note	
Specification	Sym	Condition	Min.	Тур.	Max.		
Frequency Range	F _{nom}	All combination of Frequency range Vs. Package type might not be available, please contact factory.	1KHz		800MHz		
RF Output	T		1				T
Signal Waveform					HCMOS		
Load	R _L		000() (15	ı	pF	
H-Level Voltage	V _H		90% Vcc		400() (V	
L- Level Voltage	V _L		40		10% Vcc	V	
Duty Cycle Rise/Fall time			40		60	%	
					10	ns	
Power Supply			ı	ı	ı		
Supply Voltage	V _{cc}	±5%		5.0 3.3		V	
		1KHz		0.0	15	mA	
Input Current		40MHz			30	mA	-
mpat carront		800MHz			50	mA	
Frequency Adjustment Range		333111 IE			- 00	11.0 (
Frequency Adjustment				min by ner (OP			
Output Pulling Range			±5.0ppr	n or ±10	ppm min		
△F/△V				V >±20 please	ppm is contact us		
Control Voltage Range					cc: 3.3V), cc: 5.0V)		
Frequency Stability							
Versus Operating Temperature Range			±1.0		±5.0	ppm	See ordering information
Versus supply voltage		±5% change			±0.2	ppm	
Versus Load		±10% change,15pF load			±0.2	ppm	
Aging 1 st Year		(2)			±1.0	ppm	
SSB Phase noise (20MHz)		10Hz		-80		dBc/Hz	_
		100Hz 1kHz		-120		dBc/Hz dBc/Hz	
		1KHZ 10kHz		-135 -140		dBc/Hz	_
	-	10kHz		-140		dBc/Hz	-
Environmental, Mechanical Conditions		TOURFIZ		-140		UDC/FIZ	
Operating temperature range	See order	ing information					
Storage temperature range	See ordering information -55°C to +125°C						
Shock		-55°C to +125°C MIL-STD-883C, Method 2002, Condition B					
Solderability	MII -STD-	883C, Method 2003	J., D				
Seal integrity	MIL-STD-	883C, Method 1014, Conditi	on C & A2				
	MIL-STD-683C, Method 1014, Condition C & A2						
Vibration	MIL-STD-	883C, Method 2007, Conditi	on A				



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Ordering Information

TCXO1196BE_HCMOS	-	10MHz	ı	Х	Х	Х	Х	Х
Group				01	02	03	04	05

For example, TCXO1196BE_HCMOS-10MHz-1-1-2-2-1 denotes the TCXO has the following specifications:

Temperature Range: 0°C to +50°C Stability Over Temperature: ±0.5ppm

Supply Voltage: 5V

Trimmer: With Trimmer Frequency: 10MHz Pulling Range: ±5ppm min

01	Temperature Range		
Code	Specification		
1	0°C to +50°C		
2	-10°C to +60°C		
3	-20°C to +70°C		
4	-30°C to +75°C		
5	-40°C to +80°C		
6	-40°C to +85°C		

02	Stability
Code	Spec
1	±0.5ppm
2	±1.0ppm
3	±1.5ppm
4	±2.0ppm
5	±2.5ppm
6	±3.0ppm
7	±3.5ppm
8	±5.0ppm

03	Supply Voltage
Code	Specification
1	3.3V
2	5V

04	Trimmer		
Code	Specification		
1	Without Trimmer		
2	With Trimmer		

05	Pulling Range
Code	Specification
1	±5ppm min
2	±10ppm min

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