Features

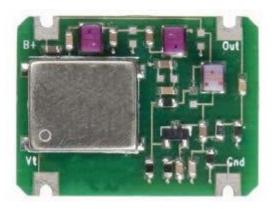
Stability: ±2.0 ppm over -40°C to +85°C 100 MHz: Sine wave: 3 dBm min

5V supply; 20 mA max. ±8 ppm EFC (0.5V to 4.5V)

Phase Noise:

-140 dBc/Hz typ. at 1 KHz -147 dBc/Hz typ. at 10 KHz 19.05 mm x 25.40 mm smd Open pcb construction

Picture of Part



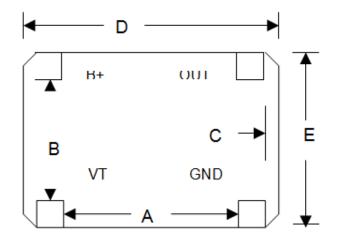
Description

The TCXOBEIM-100MHz-B device offers a value-added modular design utilizing a 50 MHz 9x11 mm VCTCXO module followed by a low noise 2X doubler circuit to derive 100 MHz output frequency; excellent frequency stability; and low phase noise performance based on analog compensation.

Typical Applications

Synthesizer Reference Test Instruments Microwave Communications LO Weather Radar

Physical Dimensions & Pin Connections



4 pads .10" square

A = 0.65° B = 0.55°

C = 0.075"

D = 1.0"

E = 0.75"

Do not immerse in solvents



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TCXOBEIM-100MHz-B Low Noise Sine Out 19.05 mm x 25.40 mm Open SMD No Cover

Specifications

TCXO Specification		Sym.	Condition	Value			11-24	Included in the
				Min.	Тур.	Max.	Unit	test data
Nominal Frequency		Fo		100.000000			MHz	
	•		+25°C +/- 5°C	-250.0		+250.0	ppb	Vc : 2.5V
RF output								
Wave form				Sine wave				
Output Power				3.0			dBm	
Harmonics			Sub harmonics -45 dBc			-25	dBc	harmonics
Load					50		Ohms	
Frequency	control			Į.				
Control voltage range		Vc		0.5	2.5	4.5	V	
Slope				Positive				
Pull range				+/- 8.0			ppm	
Power sup	ply							
Voltage		Vcc		4.75	5	5.25	V	
DC Current						20	mA	
Frequency	stability	_		1		1	T	1
vs. temperature			From -40°C to +85°C Includes voltage and load variation	-2.000		+2.000	ppm	
Aging	Per Year		after 30 days of operation at time of shipment			+/- 1.0	ppm	
SSB Phase Noise			at 1 Hz offset				dBc/Hz	
			at 10 Hz offset		-85			
			at 100 Hz offset		-120			
			at 1 kHz offset		-140			
			at 10 kHz offset		-147			
Maximum	ratings, environ	mental, me	chanical conditions.			•		
Operating temperature range			-40°C to +85°C					
Storage temperature range			-50°C to +100°C					