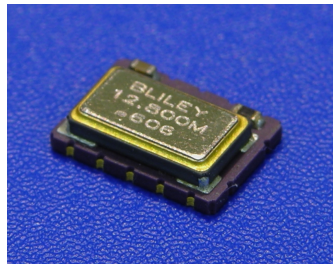


Description:

The T85J series TCXO is an analog compensated TCXO that offers proven phase noise performance with Frequency vs. Temperature stability starting at ± 1.0 part per million. The miniature 5 x 7 mm ceramic SMD package is hermetically sealed for optimum reliability.



Features:

- Available in frequencies from 5 to 52 MHz with 10 MHz, 12.8 MHz, 16.384MHz, 19.44MHz, 26MHz, 40MHz, and 50MHz all being standard.
- +/-5 ppm frequency pull range available
- CMOS and Clipped Sine Wave options can be specified
- RoHS-6 / Lead-free compliant

Frequency Range, Operating Temperature, and Frequency Stability:

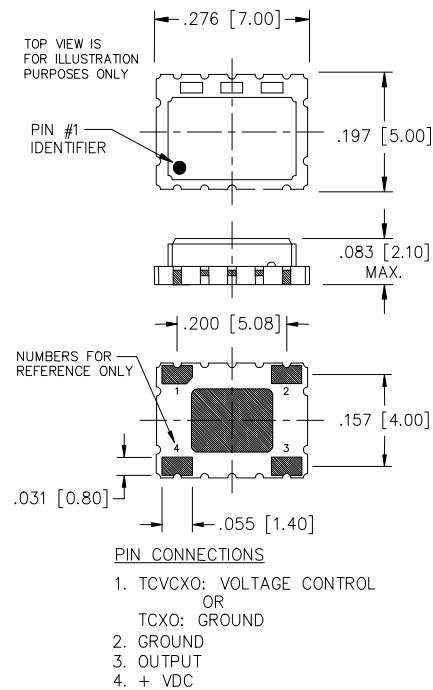
Frequency Range	Operating Temperature	Temp Range Code	Frequency Stability	Frequency Stability Code
5 to 50 MHz	0°C to +55°C	A	+/- 1.0 ppm	A
	-10°C to +60°C	B	+/- 1.5 ppm	B
	-20°C to +70°C	C	+/- 2.0ppm	C
	-30°C to +85°C	D	+/- 2.5 ppm	D
	-40°C to +85°C	E		

- Frequency Tolerance ± 2 ppm @ 25°C (1) hour after reflow
- Frequency vs. Supply Voltage ($\pm 5\%$ Change) ± 0.1 ppm max
- Frequency vs. Load Change ($\pm 10\%$ Change) ± 0.2 ppm max

Aging: (typical at 10MHz after 30 days continuous operation)

Frequency	Timeframe	Aging
10 MHz	20 Years	+/- 2.5 ppm

Phase Noise: Frequency	dBc Offset	@10.0MHz
		Phase Noise (Typ.)
10.0 MHz	1 Hz	- 60 dBc/Hz
	10 Hz	- 85 dBc/Hz
	100 Hz	-115 dBc/Hz
	1 KHz	-135 dBc/Hz
	10 KHz	-148 dBc/Hz
	100 KHz	-150 dBc/Hz



Supply Voltage (Vs):

Power Supply (Vs)	+3.3 Vdc +/-5%	+2.5 Vdc +/-5%
Product Code	C	D

Current Consumption:

	CMOS	Clipped Sine Wave
Supply Current	6 mA	3.5 mA

Environmental:

Storage Temperature	-55 to +125° C
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Output Waveform:

	CMOS	Clipped Sine Wave	
HCMOS Output Levels (15pf load)	"0" < 0.1(Vs); "1" > 0.9(Vs)	Output Level	0.8 V p-p min.
Rise / Fall Time	<10ns (10% to 90%)		
Duty Cycle	45 to 55% @ 50% Logic 1		
Product Code	A	B	

Pulling Range:

Tuning Range	None (TCXO)	+/- 5 min ppm
Product Code	A	B

*Note: Only +/- 5 ppm minimum pull is available as a TCVCXO

Ordering Options:

Operating Temperature	Frequency Stability	Supply Voltage	Output Waveform	Pulling Range	Operating Frequency (MHz)
A	A	C	A	A	xxMxxxx
B	B	D	B	B	
C	C				
D	D				
E					

T85J C B C A B 10.0000MHz

Example part number: T85JCBCAB10M0 (10MHz, Operating Temperature Range -20°C to +70°C, Frequency vs. Temperature stability ±1.5ppm, Supply Voltage 3.3VDC, Output Waveform CMOS, Electronic Frequency Control ±5ppm.