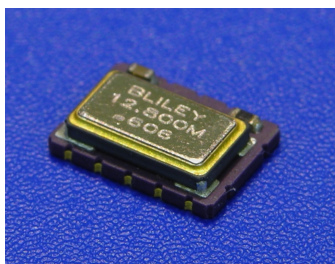


Description:

The TV85B Temperature Compensated Voltage Controllable Crystal Oscillator (TCVCXO) Series products provide a wide range of options in temperature stability, operating frequency range, and electronic frequency adjustment in a 5x7 mm ceramic package.



Features:

- Available in frequencies from 10 to 40 MHz with 10 MHz, 12.8 MHz, 25 MHz, and many other frequencies as standards
- +/-4.6 ppm overall frequency stability including 20 years aging available
- +/-5ppm to +/- 25 ppm pull range
- Clipped Sine Wave output
- Standard 5x7 mm ceramic SMD package
- RoHS-6 / Lead-free compliant

Frequency Range, Operating Temperature, and Frequency Stability:

Frequency Range	Operating Temperature	Product Code	Frequency Stability	Product Code
10 to 40 MHz	-20 to +70 C	C	+/- 0.5 ppm	A
	-40 to +85 C	D	+/- 1.0 ppm	B
	0 to +55 C	E	+/- 1.5 ppm	C
	-10 to 60 C	F	+/- 2.0 ppm	D
	-30 to 85 C	G	+/- 2.5 ppm	E

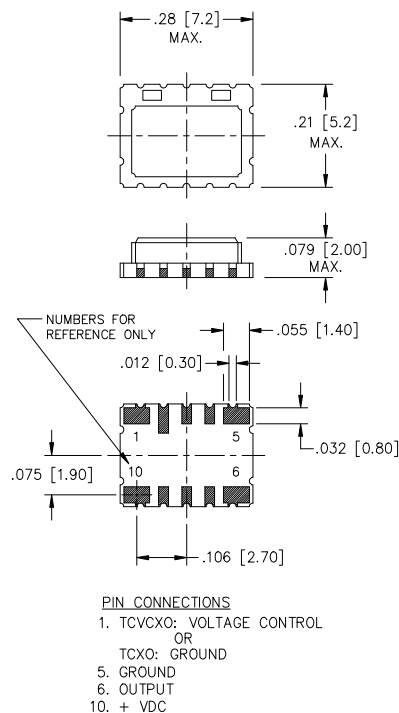
*Not all frequency stabilities are available for all operating temperature ranges

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

Frequency	Timeframe	Aging	Product Code
10 MHz	20 Years	+/- 2.5 ppm	N/A

Phase Noise: (typical for 10 MHz clipped sinewave output)

Frequency	Offset	Phase Noise (Typ.)	Product Code
10.0MHz	1 Hz	- 60 dBc/Hz	N/A
	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 +/-10%	+5.0 Vdc +/-10%
Product Code	C	D

Current Consumption:

	Clipped Sine Wave	CMOS
Supply Current	3.5 mA	6 mA

Environmental:

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

Clipped Sine Wave		CMOS		
Output Level	0.8 V p-p min	Output Level	Min	Max
Load	10K // 10pF	Logic “1”	90% Vs	
		Logic “0”		10% Vs
		Duty Cycle	45%	55%
		Load	15pF	
Product Code	N/A	C		

Pulling Range:

Tuning Range	None(TCXO)	+/- 5 ppm	+/- 8 ppm	+/- 10 ppm	+/- 12 ppm	+/- 15 ppm	+/- 20 ppm
Product Code	T	A	B	C	D	E	F

**Note: Maximum pull available dependent upon required temperature stability

Ordering Options:

Operating Temperature	Frequency Stability	Supply Voltage	Pulling Range	Output Waveform	Operating Frequency (MHz)
C	A	C	T	N/A	XXMXXX
D	B	D	A	C	
E	C		B		
F	D		C		
G	E		D		
			E		
			F		

TV85B C A C A C 10.0000MHz

Product Selection Code (refer to the above example):

This part is RoHs compliant; -20 to +70C, +/- 0.5 pm frequency vs. temperature stability, 3.3 volt Supply voltage, +/- 5 ppm pull range, CMOS output; 10MHz operating frequency

*** Not all combinations are available in this product.