



BTA16xxS SERIES TCXO

BROOKDALE FREQUENCY CONTROLS, INC.



FEATURES:

- DIL-14 THRU-HOLE PACKAGE TCXO(W/TRIMMER ACCESS)
- SINEWAVE OUTPUT
- **RoHS Compliant; Pb FREE**
- **REQUEST A CERTIFICATE OF COMPLIANCE**
- FREQUENCY ADJUSTMENT TRIMMER (± 3 PPM MIN)
- FREQUENCY STABILITY AS TIGHT AS ± 1.0 PPM
- -40 TO $+85^{\circ}\text{C}$ TEMPERATURE RANGE AVAILABLE
- **REQUEST A QUOTE ON THIS DEVICE**

BTA16xxS TCXO SERIES SPECIFICATIONS

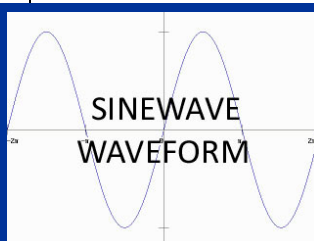
Supply Voltage (Vcc)	5Vdc $\pm 5\%$		3.3Vdc $\pm 5\%$					
Frequency Range	8 to 35.0MHz							
Output Level	1.0Vpp min							
Output Wave Form	Sinewave							
Frequency Tolerance @25°C $\pm 2^{\circ}\text{C}$	± 1.0 ppm	± 1.5 ppm	± 2.0 ppm	± 2.5 ppm (Standard)				
Supply Current	20mA Max @ 20MHz							
Load	50 Ω							
Harmonics Level	< -30 dBc							
Sputious Level	< -60 dBc							
Pull Range	± 5.0 ppm / ± 10.0 ppm / ± 15.0 ppm / ± 20.0 ppm / ± 30.0 ppm / ± 40.0 ppm / ± 50.0 ppm							
SSB Phase	Offset	10 Hz	100Hz	1 kHz	10 kHz	100 kHz	1 MHz	
Noise @25°C	3.3V-10.0MHz	98.42dBc/Hz	124.8dBc/Hz	145.3dBc/Hz	156.8 dBc/Hz	159.4 dBc/Hz	159.7dBc/Hz	
Frequency Stability (max)		± 1.0 ppm	± 1.5 ppm	± 2.0 ppm	± 2.5 ppm	± 3.0 ppm	± 4.0 ppm	± 5.0 ppm
Temperature Range ($^{\circ}\text{C}$)	0 to 60°C	Contact us	YES	YES	YES	YES	YES	YES
	0 to 70°C	Contact us	YES	YES	YES	YES	YES	YES
	-10 to 60°C	N/A	Contact us	YES	YES	YES	YES	YES
	-10 to 70°C	N/A	Contact us	YES	YES	YES	YES	YES
	-20 to 70°C	N/A	Contact us	YES	YES	YES	YES	YES
	-30 to 75°C	N/A	N/A	Contact us	YES	YES	YES	YES
	-40 to 85°C	N/A	N/A	N/A	Contact us	YES	YES	YES
Aging	± 1.0 ppm Max / Year							
Storage Temperature	-40 to 85°C							
MSL Level	MSL 1 per IPC/JEDEC-STD-020C							
Humidity	85% $\pm 3\%$ RH, 85°C , 168 Hours							
Hermeticity	Leak rate 2×10^{-8} ATM-cm ³ /sec max.							
Solderability	MIL-STD-202F method 208E							
Vibration	MIL-STD-202F method 204, (500 to 2000Hz 6g)(10-500Hz 5g)							
Shock	MIL-STD-202F method 213B, test conditions E, 1000GG 1/2sine wave							

BTA16xxT TCXO SERIES PART NUMBER GUIDE

MODEL	STABILITY	Output	Voltage	OPERATING TEMPERATURE ($^{\circ}\text{C}$)	Freq. Tolerance	Pull Range	FREQ.
BTA16	01= ± 1 ppm	S= Sinewave	5 = 5.0V	B = 0°C TO 60°C	Blank= ± 1.0 ppm@ 25°C	05= ± 5 ppm	
	15 = ± 1.5 ppm		33 = 3.3V	A = 0°C TO 70°C	A = ± 1.5 ppm@ 25°C	10= ± 10 ppm	
	02 = ± 2 ppm			C = -10 to 60°C	B = ± 2.0 ppm@ 25°C	15= ± 15 ppm	
	25 = ± 2.5 ppm			H = -10°C TO 70°C	C = ± 2.5 ppm@ 25°C	20= ± 20 ppm	
	03 = ± 3 ppm			D = -20°C TO 70°C		30= ± 30 ppm	
	04 = ± 4 ppm			E = -30°C TO 75°C		40= ± 40 ppm	
	05 = ± 5 ppm			M = -40°C TO 85°C		50= ± 50 ppm	

PART NUMBER EXAMPLE

BTA16	02	T	33	A		15	10.0
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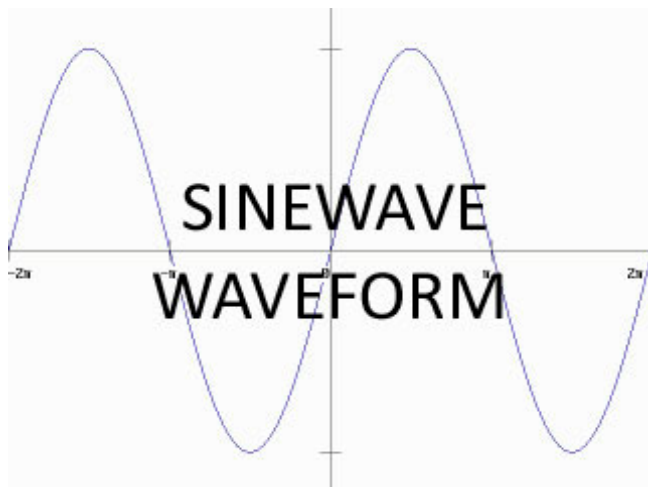
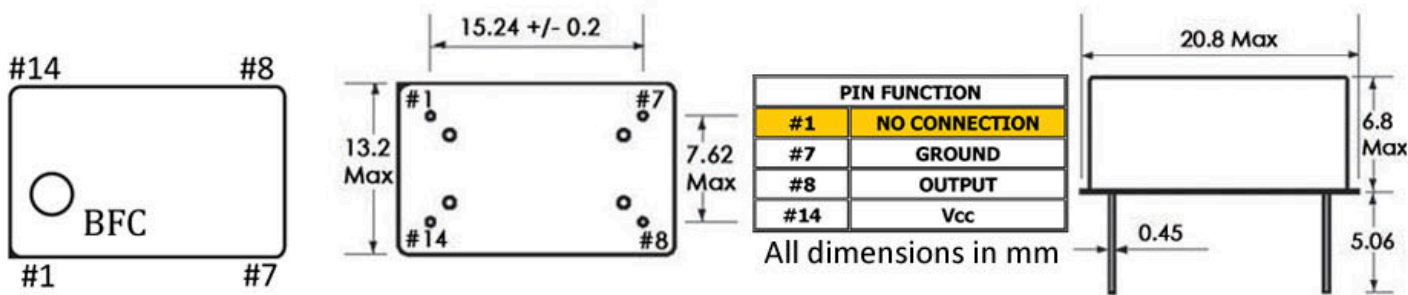


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BROOKDALE FREQUENCY CONTROLS, INC.



PACKAGE DIMENSIONS



SINEWAVE TCXO TEST CIRCUIT

