



BVT16xxCS SERIES CLIPPED SINEWAVE VCTCXO



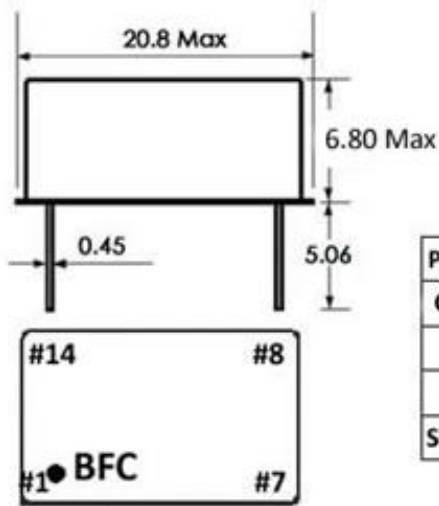
FEATURES:

- HERMETICALLY SEALED DIL-14 THRU-HOLE PACKAGE
- CLIPPED SINEWAVE OUTPUT
- FREQUENCY RANGE 8 to 35.0MHz
- FREQUENCY STABILITY AS TIGHT AS ± 1.0 ppm
- -40 to +85°C TEMPERATURE RANGE AVAILABLE
- RoHS Compliant

BVT16xxCS VCTCXO SERIES SPECIFICATIONS							
Frequency Range		8 to 35.0MHz					
Output Wave Form		Clipped Sinewave					
Frequency Stability		± 1.0 ppm	± 1.5 ppm	± 2.0 ppm	± 2.5 ppm	± 3.0 ppm	± 4.0 ppm ± 5.0 ppm
Supply Current		3mA Max					
Output Load		10k Ω /10pF					
Frequency Control	Pull Range(Minimum)	± 5 ppm / ± 10 ppm / ± 15 ppm / ± 20 ppm / ± 30 ppm					
	Slope	Positive					
	Linearity	10%					
	Input Impedance	100K Ohms					
Supply Voltage (Vcc)		5Vdc $\pm 5\%$			3.3Vdc $\pm 5\%$		
Control Voltage Range		0.5~4.5V (Suffix Blank)			0.3~3.0V (suffix E)		
		0~5.0V (Suffix A)			0.5~2.5V (suffix F)		
		0.5~4.75V (Suffix C)			0~3.3V (suffix G)		
		0.5~5.0V (Suffix D)					
Output Level		1.0Vpp min			0.8Vpp Min.		
Frequency Stability Vs.	Supply Voltage	± 0.3 ppm ($V_{CC} \pm 5\%$ Change)					
	Load Changes	± 0.3 ppm (LOAD $\pm 5\%$ Change)					
	Aging	± 1.0 ppm Max / Year					
Storage Temperature		-40 to 85°C					
SSB Phase Noise @ 25°C	Offset	10 Hz	100Hz	1 kHz	10 kHz	100 kHz	1 MHz
	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 STABILITIES OVER TEMPERATURE RANGES							
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 (°C)	0 to 60°C	Contact us	YES	YES	YES	YES	YES YES
	0 to 70°C	Contact us	Contact us	YES	YES	YES	YES YES
	-10 to 60°C	Contact us	Contact us	YES	YES	YES	YES YES
	-10 to 70°C	Contact us	Contact us	YES	YES	YES	YES YES
	-20 to 70°C	Contact us	Contact us	Contact us	YES	YES	YES YES
	-30 to 75°C	N/A	Contact us	Contact us	Contact us	YES	YES
-40 to 85°C	N/A	N/A	Contact us	Contact us	Contact us	Contact us	YES YES
BVT16xxT VCTCXO SERIES PART NUMBER GUIDE							
MODEL	STABILITY	Output	Voltage	Control Voltage(Range)	OPER. TEMP. (°C)	Pull Range(Minimum)	FREQ.
BVT16	01= ± 1 ppm	CS=Clipped	33=3.3V	Blank=2.5V(0.5~4.5V)	B=0°C TO 60°C	05= ± 5 ppm	
	15= ± 1.5 ppm	Sinewave	5=5.0V	A=2.5V(0~5.0V)	A=0°C TO 70°C	10= ± 10 ppm	
	02 = ± 2 ppm			C=2.5V(0.5~4.75V)	C =-10 to 60°C	15= ± 15 ppm	
	25 = ± 2.5 ppm			D=2.5V(0.5~5.0V)	H=-10°C TO 70°C	20= ± 20 ppm	
	03 = ± 3 ppm			E=1.65V(0.3~3.0V)	D=-20°C TO 70°C	30= ± 30 ppm	
	04 = ± 4 ppm			F=1.65V(0.5~2.5V)	E=-30°C TO 75°C		
	05 = ± 5 ppm			G=1.65V(0~3.3V)	M=-40°C TO 85°C		
PART NUMBER EXAMPLE							
BVT16	02	CS	33	A	A	15	10.0
Add Suffix "G" AFTER PART NUMBER FOR GULL WING LEAD FORM							
TYPICAL APPLICATIONS							
PCS BASE STATIONS / LAND MOBILE RADIO CELLULAR TELEPHONY / RADIO IN THE LOCAL LOOP							



BVT16XXCS SERIES CLIPPED SINEWAVE VCTCXO



PIN CONNECTION	PIN #
Control Voltage	#1
GROUND	#7
OUTPUT	#8
SUPPLY VOLTAGE	#14

