



BVT16xxS SERIES

SINEWAVE DIL-14 VCTCXO



- HERMETICALLY SEALED DIL-14 THRU-HOLE PACKAGE
- SINEWAVE OUTPUT
- RoHS Compliant; Pb FREE
- MANY PULL RANGE OPTIONS TO 50ppm
- FREQUENCY STABILITY AS TIGHT AS ± 1.0 ppm
- -40 TO +85°C TEMPERATURE RANGE AVAILABLE

BVT16xxS VCTCXO SERIES							
Frequency Range	8 to 35.0MHz						
Output Wave Form	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	20mA Max @ 20MHz						
Load	50 Ω						
Frequency Control	Pull Range(Minimum)	± 5.0 ppm / ± 10.0 ppm / ± 15.0 ppm / ± 20.0 ppm / ± 30.0 ppm					
	Slope/Linearity	Positive / 10%					
	Input Impedance	100K Ohms					
	Control Voltage(Vcon)	2.5Vdc			1.65Vdc		
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						
Harmonics Level	< -30dBc						
Sputious Level	< -60dBc						
SSB Phase Noise At 25°C	Offset	10 Hz	100Hz	1 kHz	10 kHz	100 kHz	1 MHz
	3.3V-10.0MHz	98.4dBc/Hz	124.8dBc/Hz	145.3dBc/Hz	156.8dBc/Hz	159.4dBc/Hz	159.7dBc/Hz
Frequency Stability Vs.	Supply Voltage	± 0.3 ppm (Vcc $\pm 5\%$ change)					
	Load Changes	± 0.3 ppm (Load $\pm 5\%$ change)					
	Aging	± 1.0 ppm Max / Year					
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
	0 to 70°C	Contact us	Contact us	YES	YES	YES	YES
	-10 to 60°C	Contact us	Contact us	YES	YES	YES	YES
	-10 to 70°C	Contact us	Contact us	YES	YES	YES	YES
	-20 to 70°C	Contact us	Contact us	Contact us	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	YES	
Storage Temperature	-40 to 85°C						

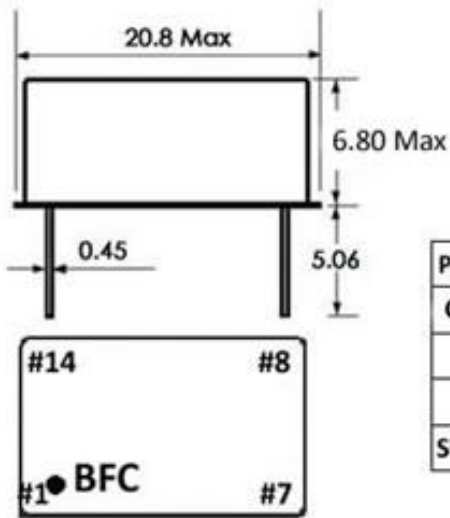
BVT16xxS VCTCXO SERIES PART NUMBER GUIDE							
MODEL	STABILITY	Output	Voltage	Control Voltage(Range)	OPER. TEMP. (°C)	Pull Range(Minimum)	FREQ.
BVT16	01= ± 1 ppm	S= Sinewave	33=3.3V	Blank=2.5V(0.5~4.5V)	A=0°C TO 70°C	05= ± 5 ppm	
	15= ± 1.5 ppm		5=5.0V	A=2.5V(0~5.0V)	B=0°C TO 60°C	10= ± 10 ppm	
	02 = ± 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 Configuration							

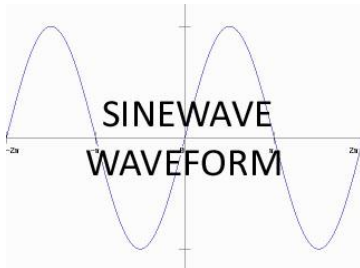
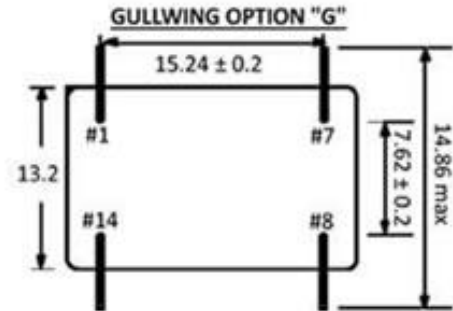
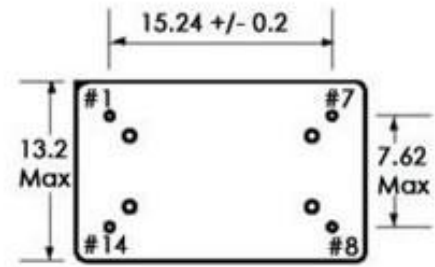
APPLICATIONS :
 PCS Base Stations, Land Mobile Radio, Cellular telephony, Radio in the Local Loop



BVT16XXS SERIES SINEWAVE DIL-14 VCTCXO



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



SINEWAVE VCTCXO TEST CIRCUIT

