



# BT16xxCS SERIES

## CLIPPED SINEWAVE DIL-14 TCXO



### FEATURES:

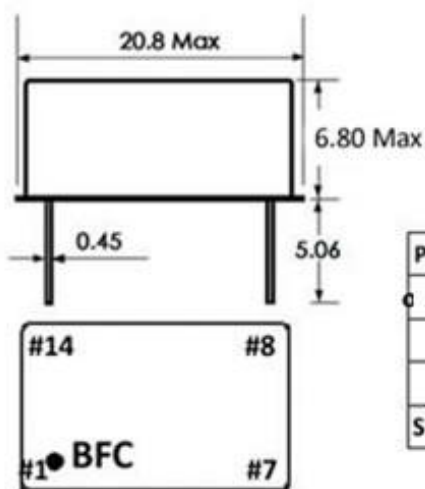
- HERMETICALLY SEALED DIL-14 THRU-HOLE PACKAGE TCXO
- CLIPPED SINEWAVE OUTPUT
- RoHS Compliant; Pb FREE
- FREQUENCY RANGE 8 TO 35.0MHZ
- FREQUENCY STABILITY AS TIGHT AS  $\pm 1.0$  PPM
- -40 TO +85°C TEMPERATURE RANGE AVAILABLE

BT16xxCS TCXO SERIES SPECIFICATIONS							
Supply Voltage (Vcc)	5Vdc $\pm 5\%$			3.3Vdc $\pm 5\%$			
Frequency Range	8 to 35.0MHz						
Output Level	1.0Vpp min			0.8Vpp Min.			
Output Wave Form	Clipped Sinewave						
Supply Current	3mA Max						
Output Load	10k $\Omega$ /10pF						
Frequency Stability Vs.	Supply Voltage	$\pm 0.3$ ppm ( $V_{CC} \pm 5\%$ Change)					
	Load Changes	$\pm 0.3$ ppm (LOAD $\pm 5\%$ Change)					
	Aging	$\pm 1.0$ ppm Max / Year					
Storage Temperature	-40 to 85°C						
Frequency Stability (max)	$\pm 1.0$ ppm	$\pm 1.5$ ppm	$\pm 2.0$ ppm	$\pm 2.5$ ppm	$\pm 3.0$ ppm	$\pm 4.0$ ppm	$\pm 5.0$ ppm
Temperature Range (°C)	0 to 60°C	Contact us	YES	YES	YES	YES	YES
	0 to 70°C	Contact us	YES	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
SSB-Phase Noise @25°C	Offset	10 Hz	100Hz	1kHz	10kHz	100kHz	1 Mhz
	3.3V @ 10.0MHz	91.6dBc/Hz	124.1dBc/Hz	148.8dBc/Hz	158.8dBc/Hz	161.8dBc/Hz	162.8dBc/Hz
BT16xxCS TCXO SERIES PART NUMBER GUIDE							
MODEL	STABILITY	Output	Voltage	OPERATING TEMPERATURE (°C)		GullWing Option	FREQUENCY
BT16	01= $\pm 1$ ppm	CS=Clipped	5 = 5.0V	B = 0°C TO 60°C		Blank = None	In MHz
	15 = $\pm 1.5$ ppm	Sinewave	33 = 3.3V	A = 0°C TO 70°C		G = Gullwing leads	
	02 = $\pm 2$ ppm			C = -10 to 60°C			
	25 = $\pm 2.5$ ppm			H = -10°C TO 70°C			
	03 = $\pm 3$ ppm			D = -20°C TO 70°C			
	04 = $\pm 4$ ppm			E = -30°C TO 75°C			
	05 = $\pm 5$ ppm			M = -40°C TO 85°C			
PART NUMBER EXAMPLE							
BT16	02	CS	33	A			10.0MHz
<p><u>TYPICAL APPLICATIONS</u>            PCS BASE STATIONS            LAND MOBILE RADIOS            CELLULAR TELEPHONY            RADIO IN THE LOCAL LOOP</p>							



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## CLIPPED SINEWAVE DIL-14 TCXO



PIN CONNECTION	PIN #
N/C	#1
GROUND	#7
OUTPUT	#8
SUPPLY VOLTAGE	#14

