

The ECS-VXO-11X Series is a wide frequency, tight tolerance, voltage controlled crystal oscillator. Featuring a wide VCO range of ± 200 ppm, this oscillator is a serious performer in applications such as wireless communications, video data compressions or PLL.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

ECS-VXO-11X



- Wide voltage control range
- Wave form symmetry of 40/60%
- HCMOS or TTL output
- Industry standard DIP 14 pin lead spacing
- PbFree/RoHS Compliant

Parameters	Conditions	Specifications	Units
Frequency Range	ALL	12.000 – 100.000	MHz
Frequency Stability	0 ~ +70°C	(A) ± 25	PPM
		(B) ± 50	PPM
Output Logic	TTL Type	2 (TT)	TTL
	HCMOS Type	15 (HC)	pF
Voltage Control Range	12.0 MHz ~ 45.0 MHz	± 50 (1), ± 100 (2), ± 150 (3), ± 200 (4), Custom (0)	PPM
	45.1 MHz ~ 100 MHz	± 50 (1), Custom (0)	PPM
Rise and Fall Time	12.0 MHz ~ 45 MHz	8 max.	nsec.
	45.1 MHz ~ 100 MHz	5 max.	nsec
Output Voltage	V_{OH}	2.4 min / V_{DD} -0.5 min	V
	V_{OL}	0.4 max.	V
Current Consumption	12.0 MHz ~ 45 MHz	50 max.	mA
	45.1 MHz ~ 100 MHz	70 max.	mA
Voltage Control	ALL	2.5 ± 2.0	V
Aging @ +25°C	Per year	± 3.0	PPM
Supply Voltage	ALL	$5.0 \pm 5\%$	VDC
Storage Temperature	ALL	-55 ~ +125	°C

Part Numbering Guide: Example VXO-11-BHC2-12.288

Series - Stability - Output Logic - Voltage Control Range - Frequency

VXO-11

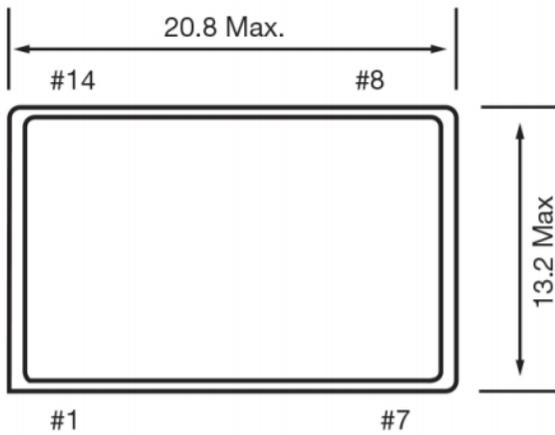
A = ± 25 ppm
B = ± 50 ppm

TT = TTL Type
HC = HCMOS Type

1 = ± 50 ppm
2 = ± 100 ppm
3 = ± 150 ppm
4 = ± 200 ppm
0 = Custom

12.288 MHz

Package Dimensions (mm)



Pin Connections	
#1	V Control
#2	Ground/Case
#3	Output
#4	+V _{CC}

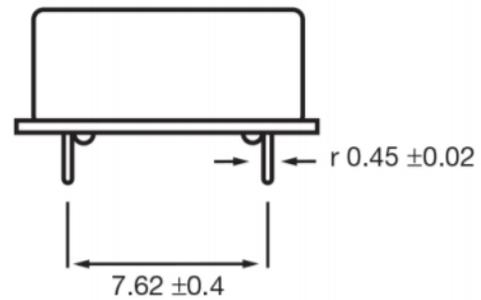
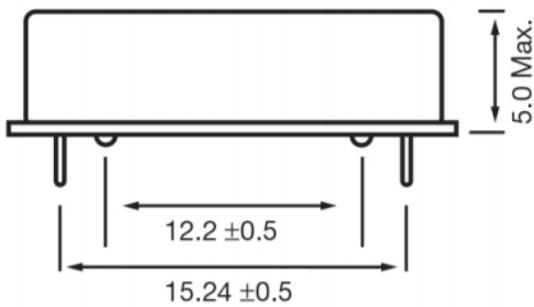


Figure 1) Top and Side views

Mouser Electronics

Authorized Distributor

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