

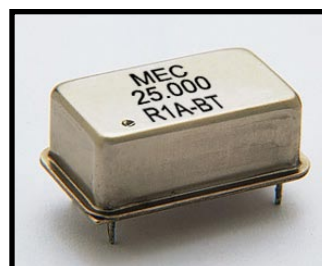
VCXO Voltage Controlled Crystal Oscillator

R Series



HCMOS (Half & Full Size)

(VCXO)



Features:

- Hybrid IC circuit construction
- HCMOS compatible output
- All metal, hermetically sealed welded package
- Half size: 12.6 x 12.6 x 5.1
- Full size: 20.26 x 12.6 x 5.1
- **RoHs Compliant (Pb Free)**

Electrical Specifications:

Model Type	Full Size		Half Size		
	R1	R2	R3	R4	
Frequency Range	1MHz to 80MHz				
Supply Voltage	5 Vdc ± 10%	3.3 Vdc ± 10%	5 Vdc ± 10%	3.3 Vdc ± 10%	
Frequency Stability	± 25 ppm, ± 50 ppm, ± 100 ppm				
Temperature Range	0°C to 70°C, -20°C to 70°C, -40°C to 85°C				
Output	HCMOS Square Wave				
Load	15 pF				
	Voltage Voh	4.5V min.	2.97V min.	4.5V min.	2.97V min.
	Voltage Vol	0.5V max.	0.03V max.	0.5V max.	0.03V max.
	Current max.	16.0 mA	8.0 mA	16.0 mA	8.0 mA
	Duty Cycle	40 / 60 max.	40 / 60 max.	40 / 60 max.	40 / 60 max.
Rise / Fall Time	5 ns				
Frequency Control	Positive Transfer Characteristic				
	Pullability	± 50 ppm, ± 100 ppm, ± 150 ppm, ± 200 ppm minimum			
	Control Voltage	0.5 Vdc to 4.5 Vdc	0.3 Vdc to 3.0 Vdc	0.5 Vdc to 4.5 Vdc	0.3 Vdc to 3.0 Vdc
	Center Frequency	2.5 Vdc	1.65 Vdc	2.5 Vdc	1.65 Vdc
	Monotonic Linearity	< ± 15%			
Input Impedance	50K ohms Normal				
Supply Current	60 mA maximum		40 mA maximum		
Package	All metal, hermetically sealed, welt package				

Supply Current (max.):

3.3 V version	
1.8432MHz ~ 19.99MHz	10 mA
20.00MHz ~ 39.99MHz	20 mA
40.00MHz ~ 65.99MHz	30 mA
66.00MHz ~ 80.00MHz	40 mA

5 V version	
1.8432MHz ~ 19.99MHz	30 mA
20.00MHz ~ 39.99MHz	40 mA
40.00MHz ~ 65.99MHz	50 mA
66.00MHz ~ 80.00MHz	60 mA

Part Numbering System:

R1 **A** — **25.000** **B** **T** **—**

① ② ③ ④ ⑤ ⑥

① Series

Series
R1: 14 pin / 5.0V
R2: 14 pin / 3.3V
R3: 8 pin / 5.0V
R4: 8 pin / 3.3V

② Frequency Stability

Frequency Stability
A: ±100 ppm
B: ±50 ppm
D: ±25 ppm

③ Frequency

Frequency
Unit : MHz
5 digits min.

④ Operating Temperature

Code	Ranges
A	0°C ~ +70°C
B	-20°C ~ +70°C
X	-40°C ~ +85°C

⑤ Output Symmetry

Code	Output Symmetry
Nil	40% / 60%
T	45% / 55%

⑥ Option

Code	Option
Nil	Standard
000	Custom

Remark: Specifications are subject to change without prior notice. Please confirm with our sales engineer.

VCXO Voltage Controlled Crystal Oscillator **R Series**

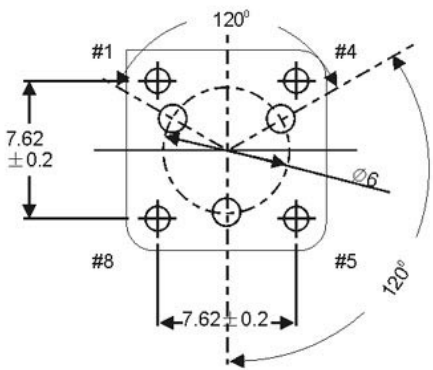
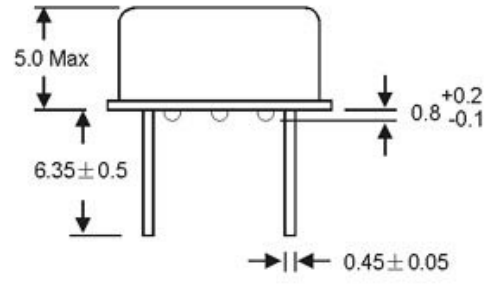
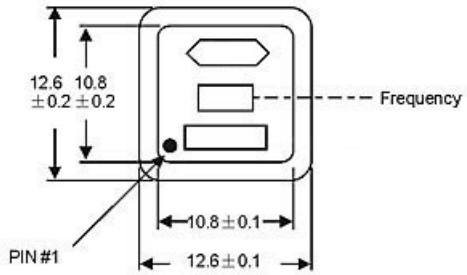
HCMOS (Half & Full Size)

(VCXO)



Dimensions:

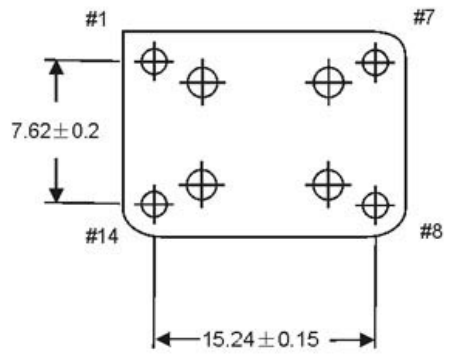
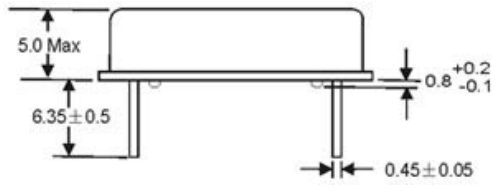
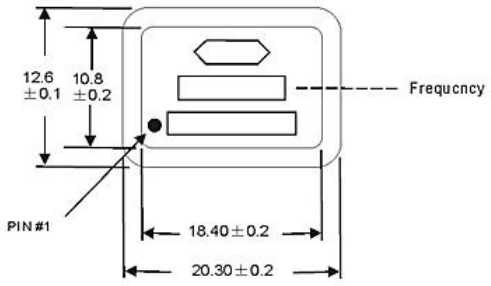
Half Size VCXO (8 Pin)



HALF SIZE	
PIN	Connection
#1	Control Voltage
#7	GND
#8	Out put
#4	(+)5V DC

All units are in mm

Full Size VCXO (14 Pin)



FULL SIZE	
PIN	Connection
#1	Control Voltage
#4	GND
#5	Out put
#8	(+)5V DC

All units are in mm

Remark: Specifications are subject to change without prior notice. Please confirm with our sales engineer.