

SURFACE MOUNT, PECL OUTPUT VCXO

VC914 • VC916

4-Lead VCXO

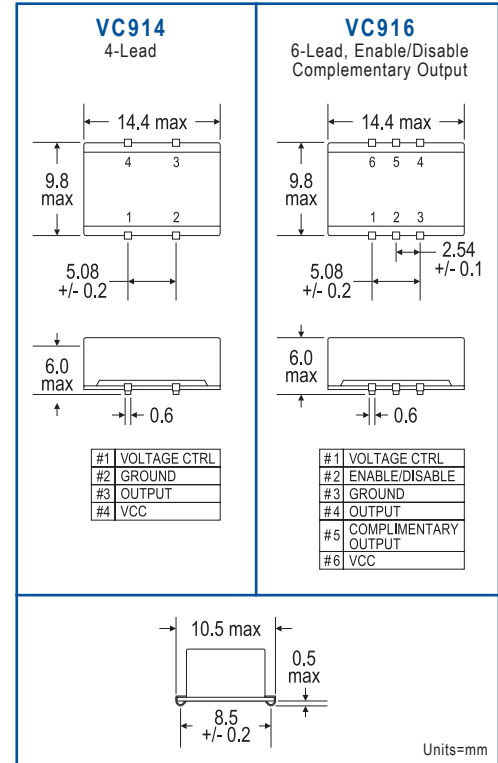
6-Lead VCXO, Enable/Disable
Complementary Output

SPECIFICATIONS

Supply Voltage	3.3 Vdc $\pm 10\%$	5.0 Vdc $\pm 10\%$
Control Voltage	0.3 Vdc to 3.0 Vdc	0.5 to 4.5 Vdc
Input Current	80 mA max	120 mA max
Calib Tolerance @ 25°C	± 20 ppm @ Center Voltage	
	3.3V: 1.65 Vdc	5.0V: 2.5 Vdc
Frequency Range	19.44 to 155.52 MHz (Inverted Mesa UM-1)	
Output Waveform	Positive ECL Square Wave	
Pull Range	See options in Part Numbering Key below	
Stability over Temp	See options in Part Numbering Key below	
Aging @ 25°C	± 1 ppm / year max	
Oper Temp Range	0°C to 70°C (std); -40°C to 85°C (optional)	
Storage Temp Range	-55°C to 125°C	
Logic "1", V _{OH}	V _{DD} -1.025 Vdc min	
Logic "0", V _{OL}	V _{DD} -1.620 Vdc max	
Load	50 Ω	
Rise & Fall Time	2.0 nS (20% to 80% of Waveform)	
Duty Cycle	50% $\pm 10\%$ (50% of Waveform)	
Start-Up Time	10 mS max	
RMS Jitter	3.5 pS max	
Linearity	$\pm 10\%$ max	

FEATURES

- Low Cost
- Hermetically-sealed
- Expanded frequency range
- Extremely low phase jitter
- Complementary output (VC916)
- Wide pullability



PART NUMBERING KEY

Sample Part Numbers

VC9143221E @ = 33.333 MHz

VC9165452E @ = 155.52 MHz

SERIES	SUPPLY VOLTAGE	STABILITY OVER TEMP	TEMP RANGE	PULL RANGE	PACKAGING	FREQUENCY
VC914 4-Lead	3 = 3.3V 5 = 5.0V	1 = ± 20 ppm** 2 = ± 25 ppm 3 = ± 30 ppm 4 = ± 50 ppm	2 = 0°C ~ 70°C* 5 = -40°C ~ 85°C	1 = ± 30 ppm 2 = ± 50 ppm 3 = ± 75 ppm 4 = ± 100 ppm	A = Bulk E = Tape & Reel (1000 pcs/reel)* X = Cust spec	
VC916 6-Lead, Enable/Disable Compl Output		** @ 0°C ~ 70°C only				
VC914	3	2	2	1	E	33.333
VC916	5	4	5	2	E	155.52

* Standard

Call factory for additional options. Use full descriptive part number when ordering. Parts will be marked with series and frequency only.