

VCXO (CMOS)

VXDIL14 , VXDIL8

General Description

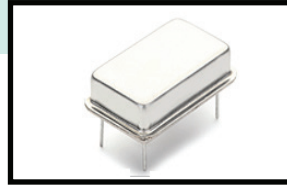
Metal case packaged VCXO compatible with DIL14 and DIL8 sockets standard

Features

Wide frequency range
Wide pulling range option

Main applications

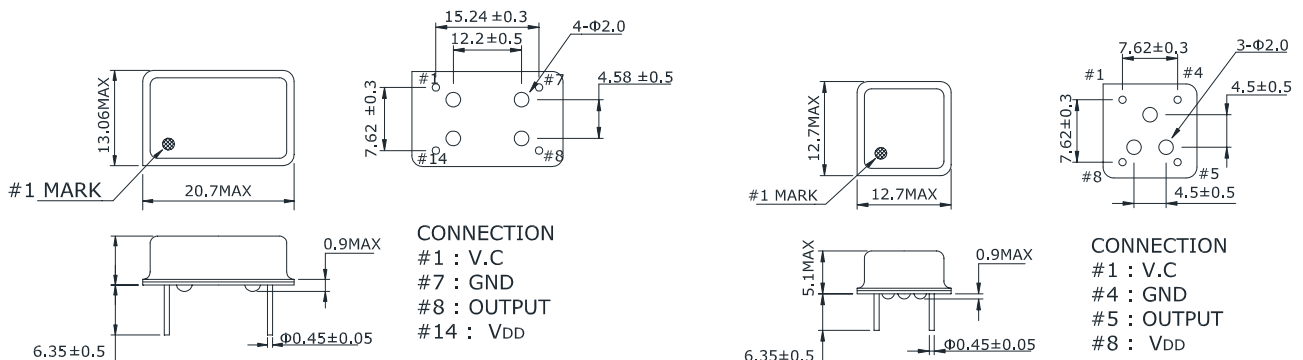
DVD, TV, Media player, optical transmission



Electrical characteristics

Item	Values	
Part number	VXDIL14 , VXDIL8	
Output Waveform	SQUARED	
Supply voltage	+3.3V	+5.0V
Control Voltage	+1.65V ±1.35V	+2.5V ±2.0V
Frequency range	1.0 - 200 MHz	
Frequency deviation	±50ppm , ±100ppm , ±150ppm , ±200ppm (only 5V)	
Current consumption	40mA max	60mA max
Linearity	10%	
Slope	positive	
Operating temp. range	-20°C / +70°C or -40°C/+85°C or user spec	
Storage temp. range	-55°C / +125°C	
Frequency stability	< ±50ppm or user spec	
Output load	CMOS 15pF	
Duty cycle	40%...60%	
VOH / VOL	90% Vdd min / 10% Vdd max	
Tr / Tf	10ns max	
Start up time	5ms max	
Aging	< ±5ppm	
Phase jitter (12KHz - 20MHz)	1ps RMS max	
Period jitter (pk-pk)	<25ps max	

Dimensions



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Part Number Generator

VXDIL14 **3** **10** **A** **-** **D** **10** **-** **-** **010.000000** **xxx**
 0 1 2 3 4 5 6 7 8 9

0 : Type
 VXDIL14
 VXDIL8

1 : Vcc
 3 = +3.3v
 5 = +5.0V

2 : Stability in temperature
 10 < ±10ppm
 15 < ±15ppm
 20 < ±20ppm
 25 < ±25ppm
 30 < ±30ppm
 50 < ±50ppm

3 Op. temp. range
 blank = -20/+70
 A = -40/+85

4 : Duty Cycle
 blank = 40% - 60%

5 : Pulling range
 C > ±50ppm
 D > ±100ppm
 E > ±150ppm

6 : Linearity
 5 = 5%
 10 = 10%
 etc

7 : Option
 blank = no option

8 : Frequency (MHz)
 □□□.□□□□□□
 max 10 digits including
 comma

9 : Customized code
 Note : factory use