



C1419

PXO

Typical Applications

Telecommunication
Universal Clock

Features

Standard 4-Pin DIP Package
Enable Function

Previous Vectron Model Numbers

MCO1XXX; AA;

Frequency range

1 MHz – 100 MHz

**Frequency stabilities¹**

Parameter	Min	Typ	Max.	Units	Operating temp range	Ordering Code ⁵
Overall (vs. Initial, vs. operating temperature range vs. supply voltage change vs. load change vs. aging /1. Yea)r	-100.0 -50.0 -25.0 -100.0 -50.0 -32.0		+100.0 +50.0 +25.0 +100.0 +50.0 +32.0	ppm ppm ppm ppm ppm ppm	-0 ... +70°C -0 ... +70°C -0 ... +70°C -40 ... +85°C -40 ... +85°C -40 ... +85°C	C104 C505 C255 F104 F505 F325

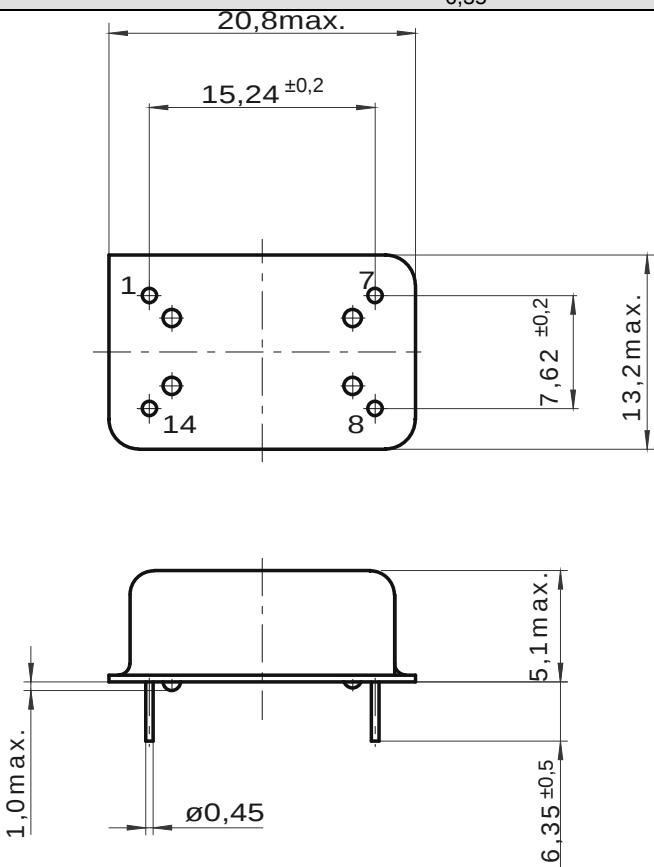
Supply voltage

Parameter	Min	Typ	Max.	Units	Condition	Ordering Code ⁵
Supply voltage (Vs)	4.75	5.0	5.25	VDC		SV050
Current consumption			40 50 55 70	mA	@ HCMOS fo < 24.0 MHz @ HCMOS fo < 50.0 MHz @ HCMOS fo < 70.0 MHz @ HCMOS fo < 100.0 MHz	
Supply voltage (Vs)	3.135	3.3	3.465	VDC		SV033
Current consumption			30 35 40 50	mA	@ HCMOS fo < 24.0 MHz @ HCMOS fo < 50.0 MHz @ HCMOS fo < 70.0 MHz @ HCMOS fo < 100.0 MHz	

RF output

Parameter	Min	Typ	Max.	Units	Condition	Ordering Code ⁵
Signal					HCMOS	RFH
Load		15.0		pF		
Rise and Fall time			10	ns	@ 15 pF 10 to 90 %	
Duty cycle	40		60	%	@ Vs/2	

Enclosures

Type A			
Package Codes:			
Code A1	Height "H" 7.5	Pin Length "L" 6,35	
 Top view dimensions: 20,8max. (total width), 15,24 ±0,2 (pin pitch), 7,62 ±0,2 (pin offset), 13,2max. (total height). Pin numbers 1, 7, 14, 8 are indicated. Side view dimensions: 5,1max. (package height), 1,0max. (pin height), 6,35 ±0,5 (pin length), ø0,45 (pin diameter).			
Dimensions: mm			
Pin Connections			
1 Enable 7 Ground (Case) 8 RF Output 14 Supply Voltage Input (Vs) Outline Drawing:	Option	Pin 1	Pin 8
	Enable	High	Output clock
		Open	
		Low	High resistance output
Marking			
C1419A1-xxxx frequency * C YYYYWW			

Absolute Maximum Ratings

Parameter	Min	Typ	Max.	Units	Condition
Supply voltage (Vs)			7	V	
Operable temperature range	-30		+80	°C	
Storage temperature range	-40		+90	°C	

How to Order this Product:

Step 1	Use this worksheet to forward the following information to your factory representative:			
	Model	Stability Code	Supply Voltage Code	RF Output Code
	C1419			

Example: C1419 C104 SV050 RFH A1

Step 2	The factory representative will then respond with a Vectron Model Number in the following Configuration:		
	Model	Package Code	Dash
	C1419	[Customer Specified Package Code]	-

Typical P/N = C1419A1-0001

Notes:

- 1 Contact factory for improved stabilities or additional product options. Not all options and codes are available at all frequencies.
- 2 Unless otherwise stated all values are valid after warm-up time and refer to typical conditions for supply voltage, frequency control voltage, load, temperature (25°C)
- 3 Phase noise degrades with increasing output frequency.
- 4 Subject to technical modification.
- 5 Contact factory for availability.