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 stabilities[1]

Parameter	Min	Typ	Max.	Units	Operating temp range	Ordering Code[5]
Overall (vs. Initial, vs. operating	-100.0		+100.0	ppm	-0 … +70°C	C104
temperature range vs. supply voltage	-50.0		+50.0	ppm	-0 … +70°C	C505
change vs. load change	-25.0		+25.0	ppm	-0 … +70°C	C255
vs. aging /1. Yea)r	-100.0		+100.0	ppm	-40 … +85°C	F104
	-50.0		+50.0	ppm	-40 … +85°C	F505
	-32.0		+32.0	ppm	-40 … +85°C	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	mA	@ HCMOS fo < 24.0 MHz	
			50		@ HCMOS fo < 50.0 MHz	
			55		@ HCMOS fo < 70.0 MHz	
			70		@ HCMOS fo < 100.0 MHz	
Supply voltage (Vs)	3.135	3.3	3.465	VDC		SV033
Current consumption			30	mA	@ HCMOS fo < 24.0 MHz	
			35		@ HCMOS fo < 50.0 MHz	
			40		@ HCMOS fo < 70.0 MHz	
			50		@ 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	

Vectron International
Headquarters
267 Lowell Road
Hudson, New Hampshire 03051
+1-888-328-7661 tel
+1-888-329-8328 fax

Vectron International LLC.
100 Watts Street
Mount Holly Springs, PA 17065

USA
+1-717-486-3411 tel
+1-717-486-5920 fax

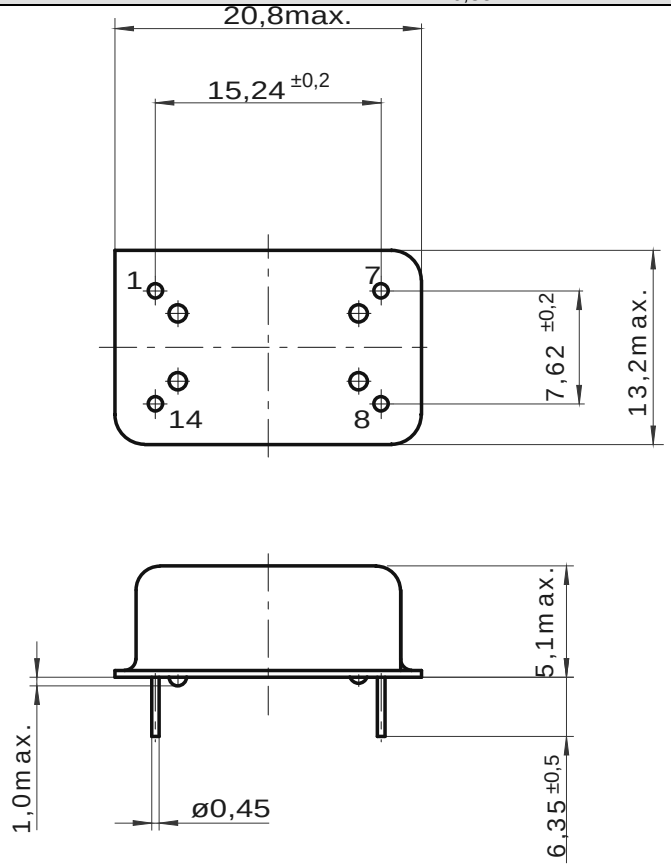
Vectron international GmbH & Co. KG
Landstrasse
D-74924 Neckarbischofsheim
Germany
+49-07268-801-0 tel
+49-07268-801-281 fax

Vectron Asia Pacific Sales Office
Unit 3119 31st Floor, Jin Mao Tower, 88
Century Boulevard, Shanghai,
P.R. China 200120
+86 21 28909740 tel.
+86 21 28909240 fax

Enclosures

Type A

Package Codes:		
Code	Height "H"	Pin Length "L"
A1	7.5	6,35



Dimensions: mm

Pin Connections			
1 Enable	Option	Pin 1	Pin 8
7 Ground (Case)	Enable	Tri State	High Open Low
8 RF Output			Output clock High resistance output
14 Supply Voltage Input (Vs)			
Outline Drawing:			

Marking
C1419A1-xxxx frequency * C XYYWW

Absolute Maximum Ratings

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

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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**	**Package 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**	**Dash Number**
C1419	[Customer Specified Package Code]	-	[Factory Generated 4 digit number]

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.

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