



C5419

VCXO

Typical Applications

Telecommunication
Wireless Application

Features

Standard 4-Pin DIP Package

Previous Vectron Model Numbers

BA

Frequency range

1 MHz – 125 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		SV050
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	

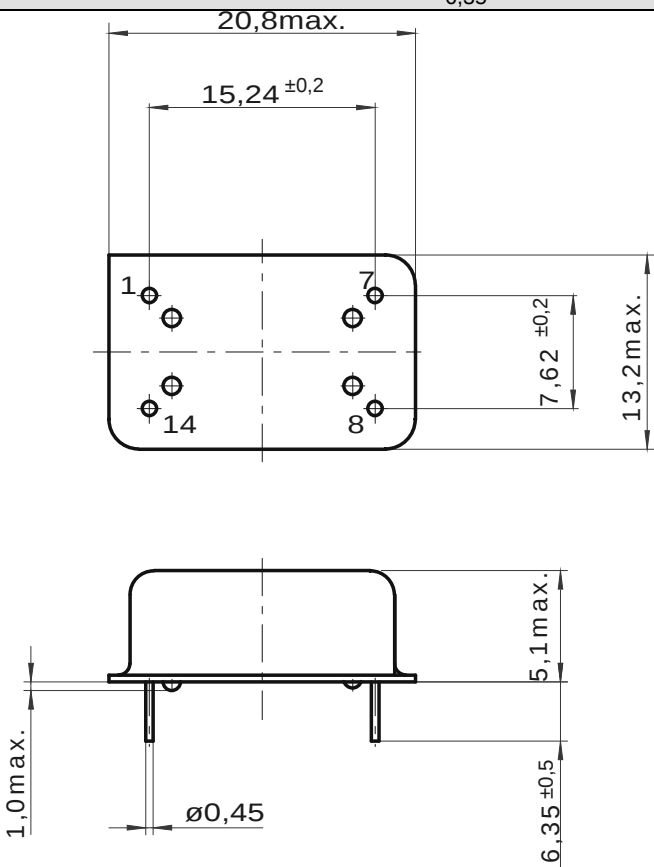
RF output

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	

Frequency Tuning (EFC)

Parameter	Min	Typ	Max.	Units	Condition
Tuning Range	±50.0 ±100.0	±90.0 ±140.0	+200.0 ±200.0	ppm ppm	
Linearity			10	%	
Tuning Slope			Positive		
Control Voltage Range	0.0 0.5	1.65 2.5	3.3 4.5	VDC VDC	with Vs=3.3VDC with Vs=5.0VDC
Frequency control input impedance	10			k Ω	

Enclosures

Type A			Package Codes:
Code A1	Height "H" 7.5	Pin Length "L" 6,35	
 Dimensions: mm			
Pin Connections			
1	Control Voltage		
7	Ground (Case)		
8	RF Output		
14	Supply Voltage Input (Vs)		
Outline Drawing:			
Marking			
C5419A1-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	Tuning Range	Package Code
	C5419				

Example: C5419 C104 SV050 50 A1

Step 2	The factory representative will then respond with a Vectron Model Number in the following Configuration:			
Model		Package Code	Dash	Dash Number
C5419		[Customer Specified Package Code]	-	[Factory Generated 4 digit number]

Typical P/N = C5419A1-0001

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.