

Typical Applications

Telecommunication
 Universal Clock

Features

5x3.2 ceramic oscillator
 Enable Function

Previous Vectron Model Numbers

Frequency range

2.5 MHz – 80 MHz

Frequency stabilities¹

Parameter	Min	Typ	Max.	Units	Operating temp range	Ordering Code ⁵
overall tolerance (vs. Initial, vs. operating temperature range vs. Load vs. Supply, vs:1 year aging)	-100.0		+100.0	ppm	-0 ... +70°C	C104
	-50.0		+50.0	ppm	-0 ... +70°C	C505
	-100.0		+100.0	ppm	-40 ... +85°C	F104
	-50.0		+50.0	ppm	-40 ... +85°C	F505

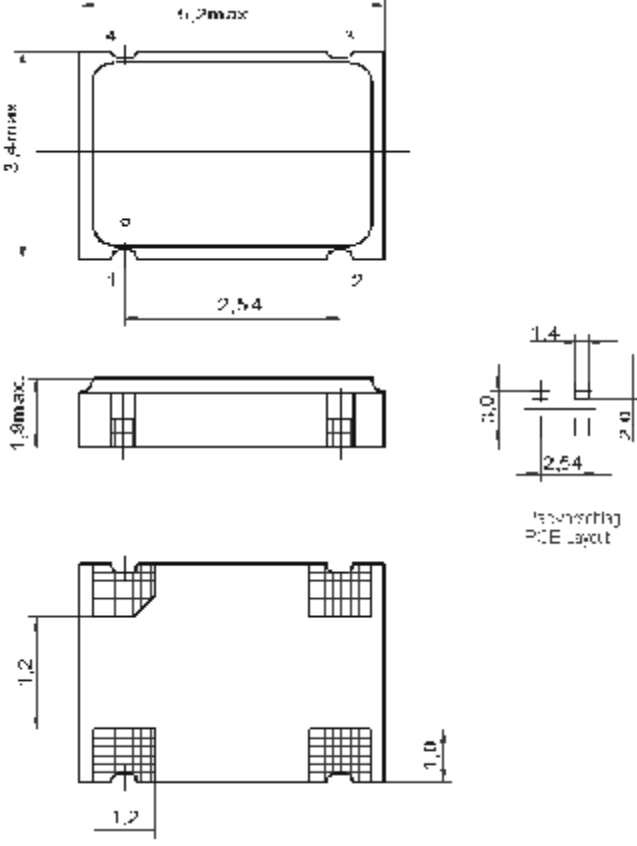
Supply voltage

Parameter	Min	Typ	Max.	Units	Condition	Ordering Code ⁵
Supply voltage (Vs)	4.75	5.0	5.25	VDC		SV050
Current consumption			15	mA	fo < 20 MHz	
Current consumption			45	mA	fo < 80 MHz	
Supply voltage (Vs)	3.135	3.3	3.465	VDC		SV033
Current consumption			10	mA	fo < 20 MHz	
Current consumption			25	mA	fo < 80 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	

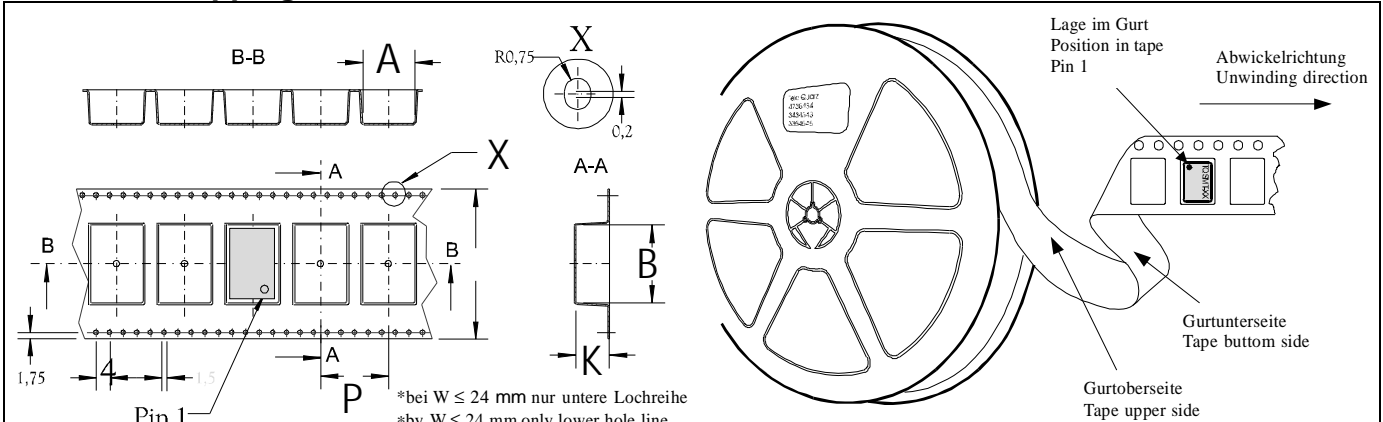
Enclosure

Type A			
Package Codes:			
Code	Height "H"	Pin Length "L"	
A1	1,9	NA	
			
Dimensions: mm			
Pin Connections			
1 NC / Tri-State Control 2 Ground (Case) 3 RF Output 4 Supply Voltage Input (Vs) Outline Drawing:	Option	Pin 1	Pin 3
	Enable	Tri State High Open Low	Output clock High resistance output
Marking			
C1209A1-xxxx frequency * C XYYWW			

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	

Standard Shipping Method



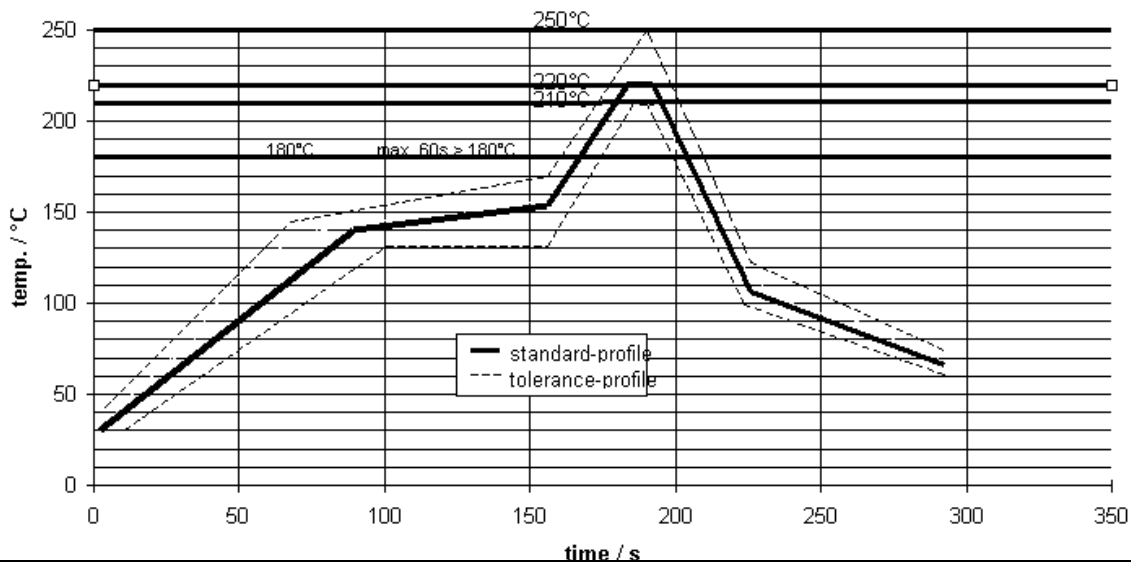
*bei $W \leq 24$ mm nur untere Lochreihe
*by $W \leq 24$ mm only lower hole line

Production tolerance complying DIN IEC 286-3

Enclosure Type	Tape width W [mm]	Quantity per meter	Quantity per reel	Dimension P
Type A	16	125	1000	8

Recommended Reflow Profile

standard-reflow-profile for SMD-oscillators



SMD oscillators must be on the top side of the PCB during the reflow process.

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
	C1209				
<i>Example:</i>	<i>C1209</i>	<i>C104</i>	<i>SV050</i>	<i>RFH</i>	<i>A1</i>

Step 2	The factory representative will then respond with a Vectron Model Number in the following Configuration:			
	Model	Package Code	Dash	Dash Number
	C1209	[Customer Specified Package Code]	-	[Factory Generated 4 digit number]

Typical P/N = C1209A1-0001

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.