

# R3206

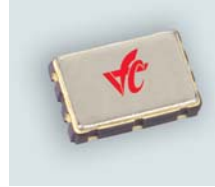
## VCXO 5.0V

### 5 x 7 mm SMD, CMOS/TTL



#### Features

- $\pm 100$  PPM APR
- Jitter <8 ps
- Excellent  $\Delta F/\Delta V$  linearity
- TRISTATE



#### RoHS Status



#### Applications

- Wireless
- Data communications

#### Electrical Specifications

Parameter	Symbol	Condition	Min	Typ	Max	Unit	Note
Frequency Range	F		3		55	MHz	
Frequency Stability	$\Delta F/F$	Includes calibration at 25°C, operating temperature, change of input voltage, change of load, shock and vibration		$\pm 30$		ppm	
Aging		First Year After First Year		3 1		ppm ppm	
Operating Temperature	T		0° -40°		+70° +85°	°C	
Supply Voltage	V <sub>CC</sub>		4.75	5.0	5.25	V	
Supply Current	I <sub>CC</sub>	3MHz to 10MHz 10.1 to 20MHz 20.1 to 30MHz 30.1 and above		2.0 3.0 5.0 7.0	3.5 4.0 6.0 8.0	mA	
Output Levels		"0" Level, sinking 16mA "1" Level CMOS, sourcing 8mA	V <sub>DD</sub> -0.4		0.4	V	
Rise & Fall Times		CMOS, 15pF, 20% to 80%		1.0	2.0	ns	
Peak Jitter	1 $\sigma$			<8		ps	
Phase Noise		100Hz 1KHz 10KHz 100KHz 1MHz		-110 -132 -146 -158 -165		dBc/Hz	@74.25MHz
Input Impedance		Pad 1, V <sub>C</sub>	100	1000		KOhm	
Start-up Time	T <sub>s</sub>				5	ms	
Duty Cycle		CMOS @50% V <sub>DD</sub>		48/52	45/55	%	



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### Electrical Specifications

Parameter	Symbol	Condition	Min	Typ	Max	Unit	Note
Control Voltage	Vc	R3206	0.5		4.5	V	
Control Voltage Bandwidth			15	75		KHz	
APR			± 100			ppm	
Tristate	Input HIGH (>2.5V) or floating: Input LOW (<0.5V):		ACTIVE HIGH IMPEDANCE				

### Environmental and Mechanical Conditions

Parameter	Specification
Mechanical Shock	Per MIL-STD-202, Method 213, Cond. E
Thermal Shock	Per MIL-STD-883, Method 1011, Cond. A
Vibration	Per MIL-STD-883, Method 2007, Cond. A
Hermetic Seal	Leak rate less than $5 \times 10^{-8}$ atm.cc/s of helium

### How to Order:

R3206 -  - FREQUENCY

#### Temperature Range

Code	Specification
B	0°C to +70°C
G	-40°C to +85°C

Pin #	Connections
1	Vc
2	Tristate
3	Ground, Case
4	Output
5	N/C
6	Vcc

Model	Marking Letter ID
R3206	VW

