

# 3.2 x 2.5mm CMOS SMD VCXO Pb-Free & RoHS compliant

## VJA

### STABILITY/PULLABILITY

MODEL	STABILITY	PULLABILITY
VJA13B9A	±100ppm/-10 ~ +70	±100ppm Min.
VJA23B9A	±50ppm/-10 ~ +70	±100ppm Min.
VJA43B9R	±25ppm/-40 ~ +85	±100ppm Min.
VJA13B9R	±100ppm/-40 ~ +85	±100ppm Min.
VJA23B9R	±50ppm/-40 ~ +85	±100ppm Min.
VJA43B9R	±25ppm/-40 ~ +85	±100ppm Min.

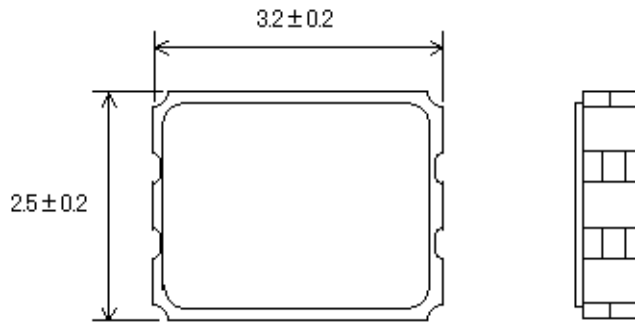
### OPERATING CONDITIONS

Operating Temperature	-10 ~ +70 , -40 ~ +85
Storage Temperature	-40 ~ +85
Supply Voltage (Vdd)	+3.3V±5%
Control Voltage (Vcont)	+1.65V±1.65V

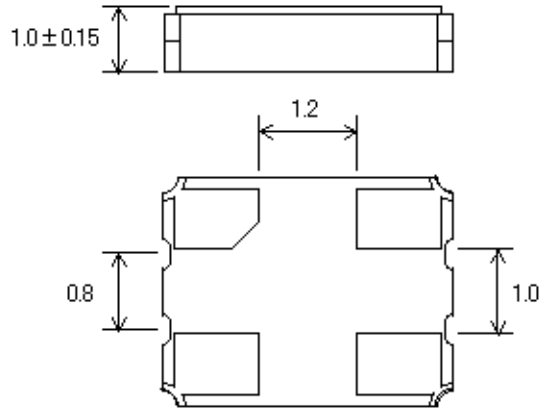
### ELECTRONICAL CHARACTERISTICS (Ta=-10 ~ 70 , Vdd=3.3V, CL=15pF, Vcont=1.65V)

PARAMETERS	CONDITIONS	SPECIFICATIONS
Frequency Range (MHz)		5.000 ~ 54.000
Frequency Stability	All conditions (Note)	±25ppm ~ ±100ppm
Output Voltage (Vol)	"0" Level	0.33V Max.
Output Voltage (Voh)	"1" Level	2.97V Max.
Rise Time (Tr)	20% to 80%Vdd	5ns Max.
Fall Time (Tf)	80% to 20%Vdd	5ns Max.
Input Current (Idd)	5.000 ~ 30.000MHz 30.000+ ~ 54.000MHz	15mA Max. 25mA Max.
Output Load	HCMOS	15pF Max.
Symmetry	@50%Vdd	40/60%
Linearity		+/-10% Max.
Start-up Time		10ms Max.
Modulation Bandwidth		20kHz Min.
VCO Input Impedance		1M Ω Min.

Note: Inclusive of 25 tolerance, operating temperature range, input voltage change and load change, with Vcont +1.65V.



Pin Connection	
#1	VCONT
#2	GND
#3	OUT
#4	VDD



RECOMMENDED  
SOLDER PAD LAYOUT

