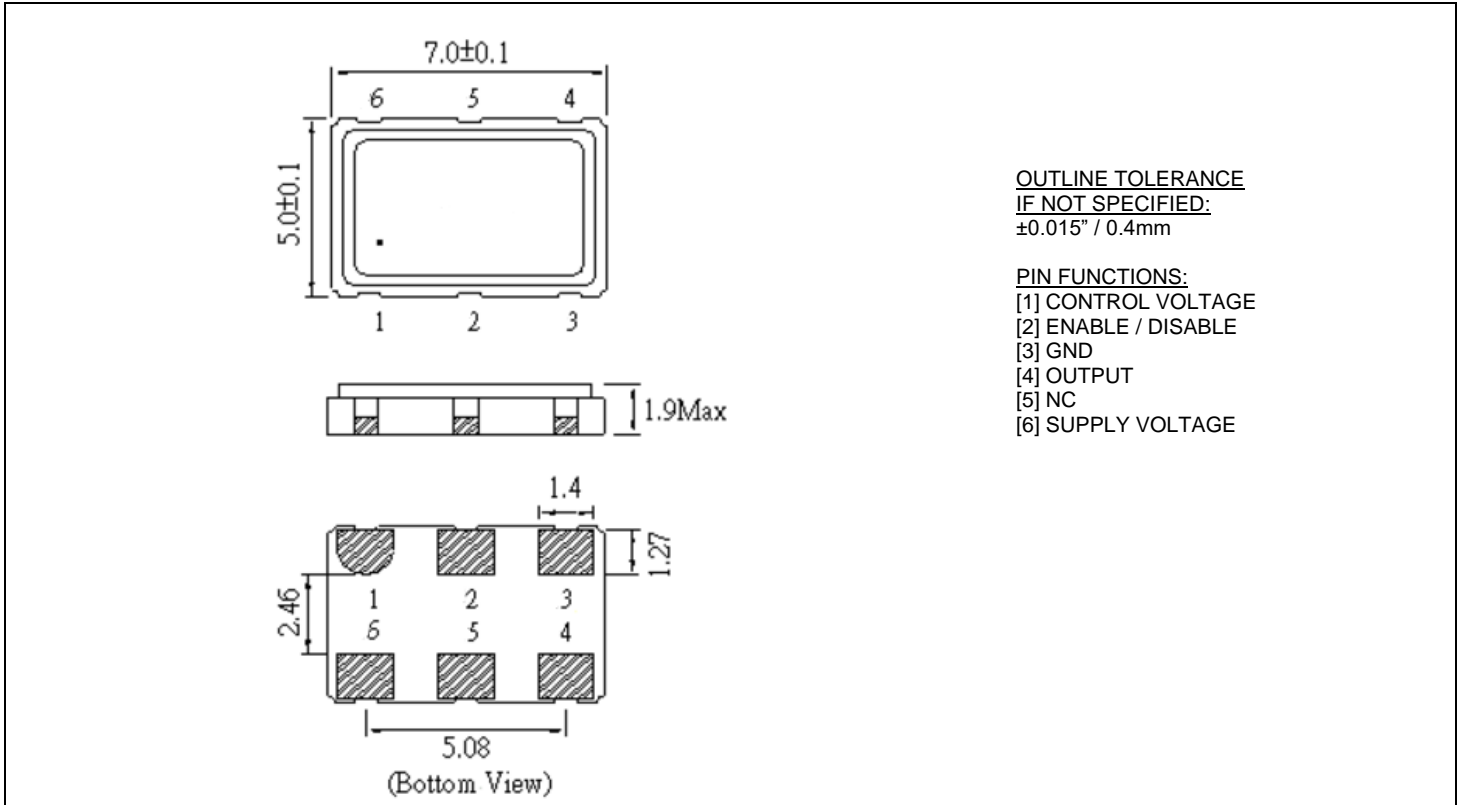




■ ELECTRICAL SPECIFICATION

PARAMETER		VALUE	
Frequency Range ( $F_0$ )		1.000 ~ 200.000 MHz	1.000 ~ 40.000 MHz
Supply Voltage ( $V_S$ )		3.3 ± 10% VDC	5.0 ± 10% VDC
Control Voltage Range ( $V_{CC}$ )		1.65 ± 1.35 VDC	2.5 ± 2.0 VDC
Input Current		15 mA max ( $F_0 \leq 40.00$ MHz)	30 mA max
		50 mA max ( $F_0 > 40.00$ MHz)	
Frequency Stability		±20 ppm, ±50 ppm, ±100ppm	
Frequency Adjustment Range		±50 ppm min, ±100 ppm min	
Operating Temperature Range		-10 ~ +70°C -40 ~ +85°C	
Storage Temperature Range		-55 ~ +125°C	
Output CMOS	Symmetry at 50% $V_S$	40% ~ 60% Standard 45% ~ 55% Tight	
	Rise / Fall Time	6 ns max	
	Logic "0" Level	$V_S \times 0.1$ V max	
	Logic "1" Level	$V_S \times 0.9$ V min	
	Load	15 pF max	
Enable / Disable Function		Pin 1: High or Open / Output enabled (Pins 4 & 5) Pin 1: Low / Output disabled (High impedance)	
RMS Phase Jitter (12kHz ~ 20 MHz)		1 ps max	
Peak to Peak Period Jitter		30 ps typ	

MECHANICAL SPECIFICATION



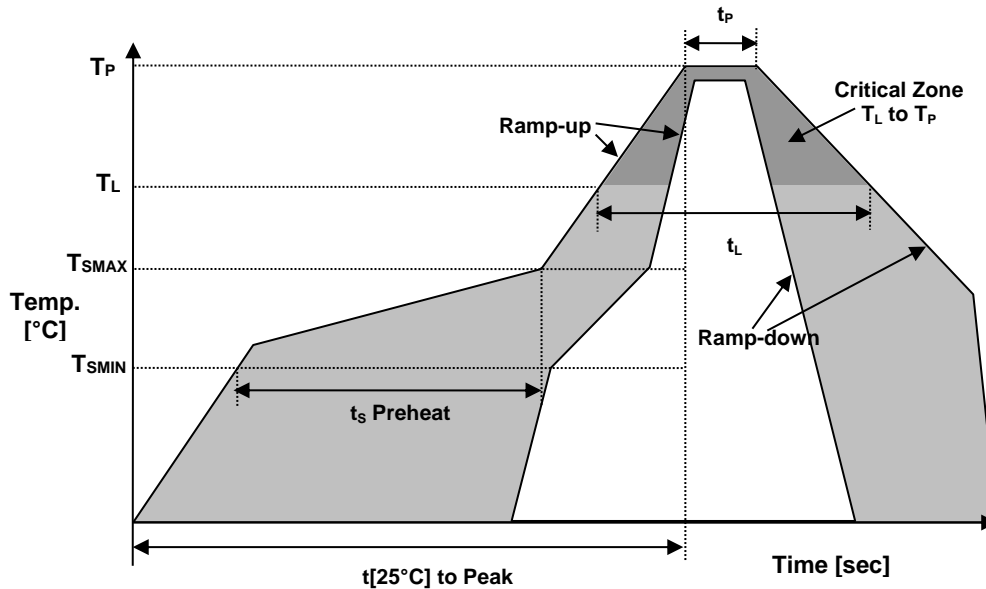
PART NUMBERING SYSTEM

TYPE	SERIES	VOLTAGE (V)	STABILITY (ppm)	TEMPERATURE RANGE (°C)	PULLABILITY (ppm)	SYMMETRY (%)	FREQUENCY (MHz)
VO	7	3: 3.3 5: 5.0	20: $\pm 20$ 50: $\pm 50$ 10: $\pm 100$	JZ: -10 ~ +70 HZ: -20 ~ +70 D3: -40 ~ +85	50: $\pm 50$ 100: $\pm 100$	blank: 40~ 60 T: 45-55	1.000 ~ 200.000

EXAMPLE: VO7325-D3-100-T-155.520

Surface Mount VO7 Series CMOS VCXO, 7.0 x 5.0 mm, 3.3 VDC Supply Voltage,  $\pm 25$  ppm Stability from  $-40^\circ\text{C}$  to  $+85^\circ\text{C}$ ,  $\pm 100$  ppm Frequency Adjustment Range, Symmetry 45% to 55%, 155.520 MHz

REFLOW PROFILE



Reflow profile		
Temperature Min Preheat	$T_{SMIN}$	150°C
Temperature Max Preheat	$T_{SMAX}$	200°C
Time ( $T_{SMIN}$ to $T_{SMAX}$ )	$t_s$	60-180 sec.
Temperature	$T_L$	217°C
Peak Temperature	$T_P$	260°C
Ramp-up rate	$R_{UP}$	3°C/sec max.
Ramp-down rate	$R_{DOWN}$	6°C/sec max.
Time within 5°C of Peak Temperature	$t_p$	10 sec.
Time $t[25^\circ\text{C}]$ to Peak Temperature	$t[25^\circ\text{C}]$ to Peak	480 sec.
Time	$t_L$	60-150 sec.

ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
REACH SVHC	COMPLIANT
RoHS	COMPLIANT
TERMINATION FINISH	Au

