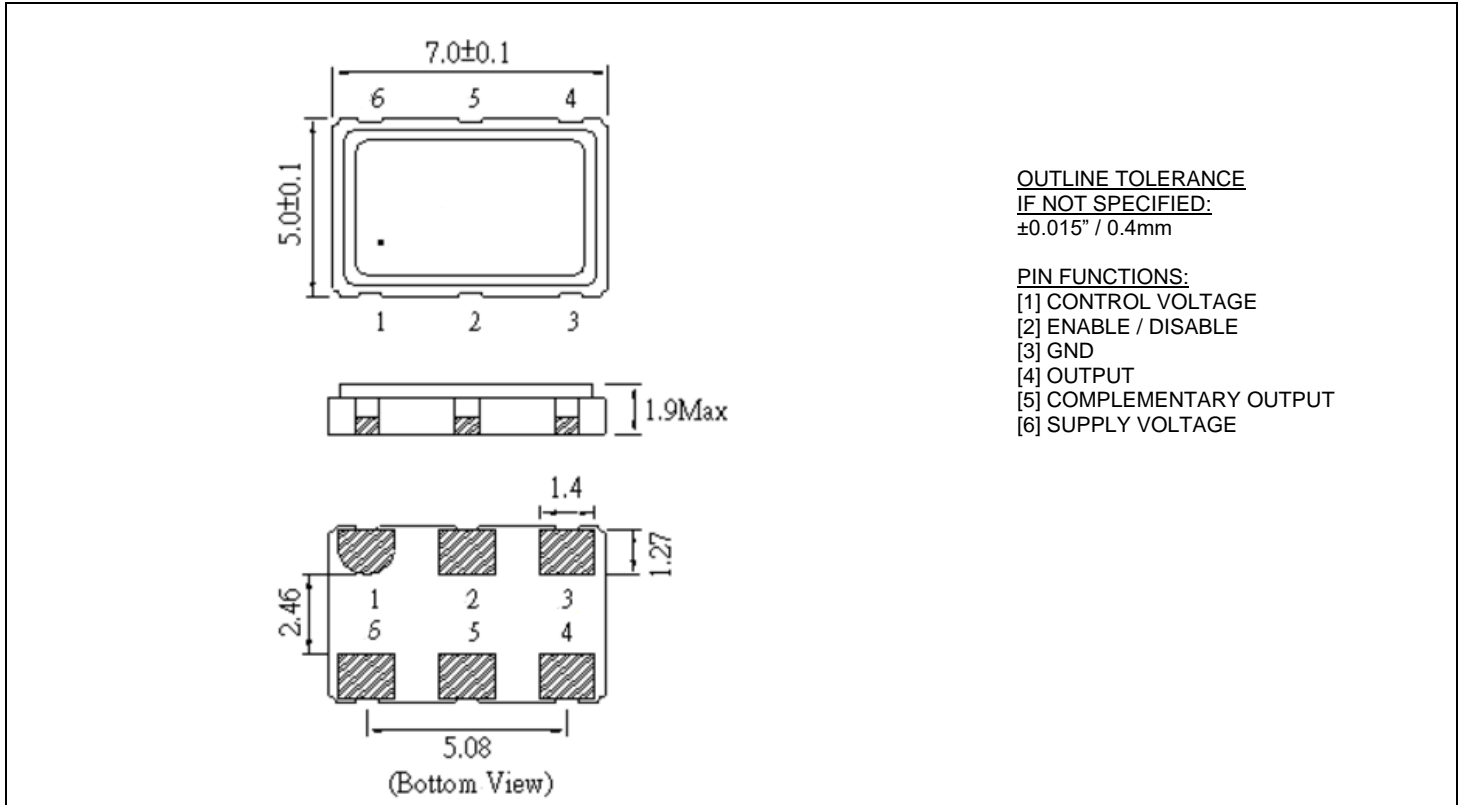




■ ELECTRICAL SPECIFICATION

PARAMETER		VALUE
Frequency Range (F <sub>0</sub> )		60.000 ~ 200.000 MHz
Supply Voltage (V <sub>S</sub> )		3.3 ± 10% VDC
Oscillation Mode		Fundamental
Control Voltage Range (V <sub>CC</sub> )		1.65 ± 1.65 VDC
Input Current		80 mA max
Frequency Stability		±20 ppm, ±25 ppm, ±50 ppm, ±100 ppm
Frequency Adjustment Range		±50 ppm, ±100 ppm min
Operating Temperature Range		-10 ~ +70°C -40 ~ +85°C
Storage Temperature Range		-55 ~ +125°C
Output LVPECL	Symmetry at 50% V <sub>S</sub>	40% ~ 60% Standard 45% ~ 55% Tight
	Rise / Fall Time	1.0 ns max
	Logic "0" Level	2.475 V max
	Logic "1" Level	1.68 V min
	Load (Terminus to V <sub>S</sub> -2V)	50 Ω
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

MECHANICAL SPECIFICATION



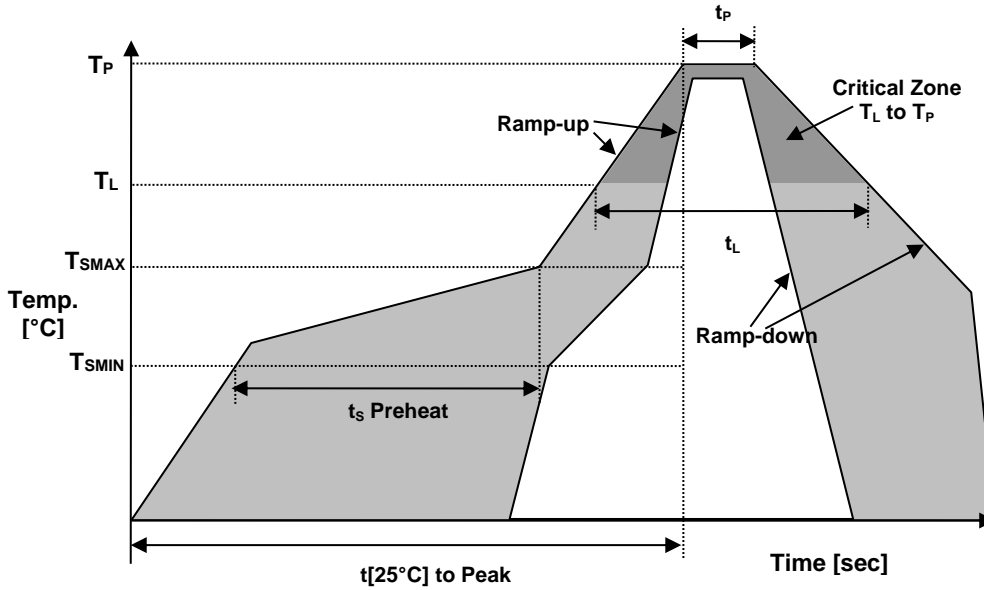
PART NUMBERING SYSTEM

TYPE	SERIES	VOLTAGE (V)	STABILITY (ppm)	TEMPERATURE RANGE (°C)	PULLABILITY (ppm)	SYMMETRY (%)	FREQUENCY (MHz)
VPF	7	3: 3.3	20: $\pm 20$ 25: $\pm 25$ 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	60.000 ~ 200.000

EXAMPLE: VPF7325-D3-100-T-155.520

Surface Mount VPF7 Series, LVPECL Fundamental VCXO, 7.0 x 5.0 mm, 3.3 VDC Supply Voltage,  $\pm 25$  ppm Stability from -40°C to +85°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



May 2017