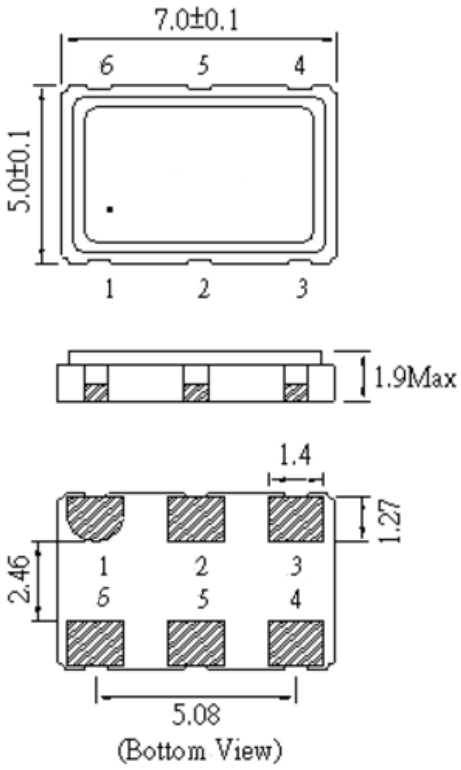
LVDS SURFACE MOUNT VCXO

SERIES VLF7

ELECTRICAL SPECIFICATION

PARAMETER		VALUE
Frequency Range (F_O)		60.000 ~ 200.000 MHz
Supply Voltage (V_S)		3.3 ± 10% VDC
Oscillation Mode		Fundamental
Control Voltage Range (V_{CC})		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_S	40% ~ 60% Standard 45% ~ 55% Tight
	Rise / Fall Time	1.0 ns max
	Logic “0” Level	0.9 V max
	Logic “1” Level	1.6 V min
	Load (Terminus to V_S-2V)	100 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 ~ 20MHz)		1 ps max

MECHANICAL SPECIFICATION



OUTLINE TOLERANCE
IF NOT SPECIFIED:
±0.015" / 0.4mm

PIN FUNCTIONS:
[1] CONTROL VOLTAGE
[2] ENABLE / DISABLE
[3] GND
[4] OUTPUT
[5] COMPLEMENTARY OUTPUT
[6] SUPPLY VOLTAGE

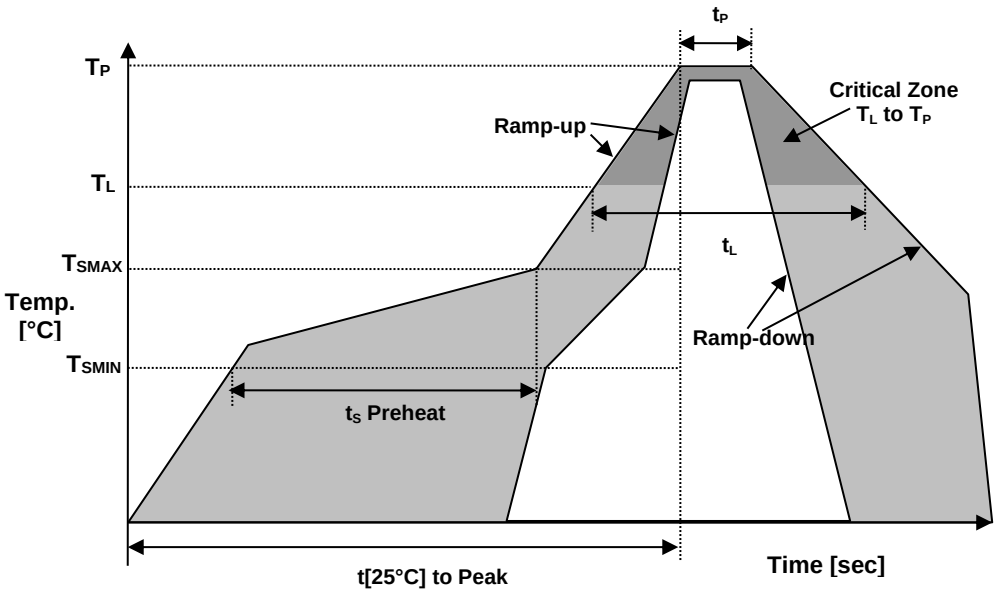
PART NUMBERING SYSTEM

TYPE	SERIES	VOLTAGE (V)	STABILITY (ppm)	-	TEMPERATURE RANGE (˚C)	-	PULLABILITY (ppm)	-	SYMMETRY (%)	-	FREQUENCY (MHz)
VLF	7	3: 3.3	20: ±20 25: ±25 50: ±50 10: ±100	-	JZ: -10 ~+70 HZ: -20 ~+70 D3: -40 ~+85	-	50: ±50 100: ±100	-	blank: 40~ 60 T: 45~55	-	60.000 ~ 200.000

EXAMPLE: VLF7325-D3-100-T-155.520

Surface Mount VLF7 Series, LVDS Fundamental VCXO, 7.0 x 5.0 mm, 3.3 VDC Supply Voltage, ±25 ppm Stability from -40°C to +85°C, ±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°C] to Peak Temperature	t[25°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

RoHS Compliant

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