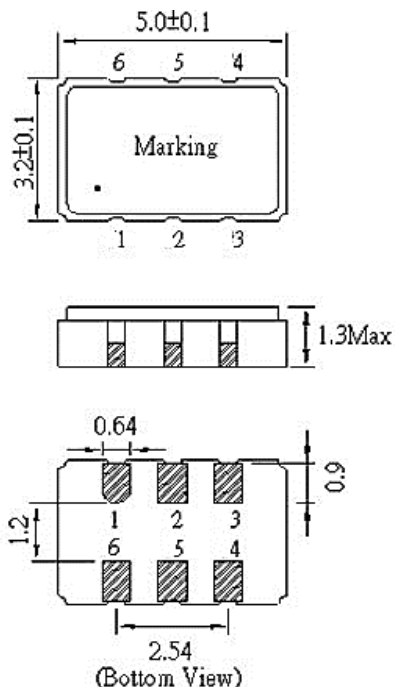


■ ELECTRICAL SPECIFICATION

PARAMETER		VALUE	
Frequency Range (F _o)		1.250 ~ 54.000 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	30 mA max
Frequency Stability		±20 ppm, ±50 ppm, ±100 ppm	
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 x 0.1 V max	
	Logic "1" Level	V _s x 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



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

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

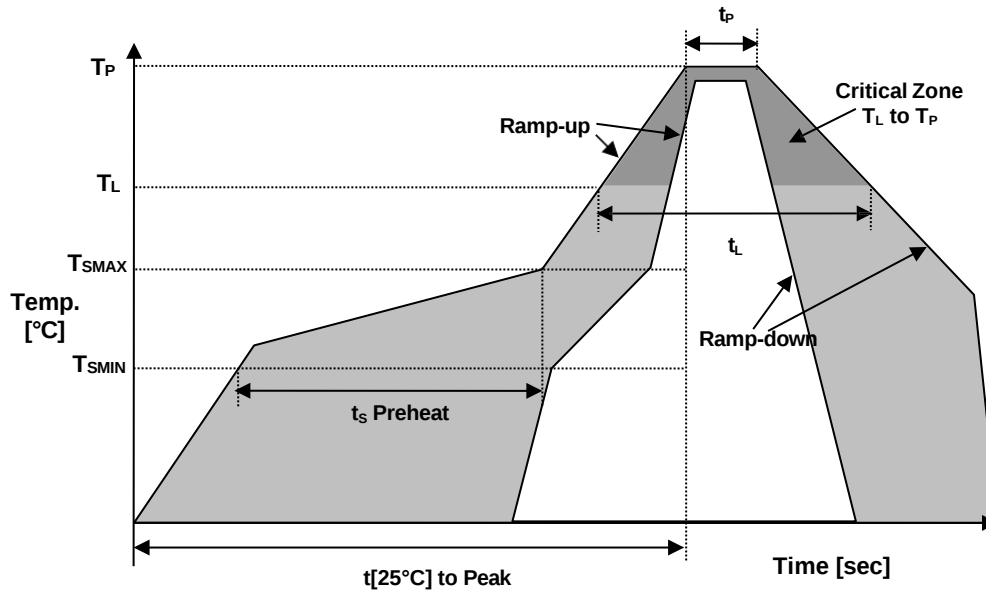
■ PART NUMBERING SYSTEM

TYPE	SERIES	VOLTAGE (V)	STABILITY (ppm)	-	TEMPERATURE RANGE (°C)	-	PULLABILITY (ppm)	-	SYMMETRY (%)	-	FREQUENCY (MHz)
VO	5	3: 3.3 5: 5.0	20: ±20 50: ±50 10: ±100	-	JZ: -10 ~+70 HZ: -20 ~+70 D3 :-40 ~+85	-	50: ±50 100: ±100	-	blank: 40~ 60 T: 45~55	-	1.250 ~ 54.000

EXAMPLE: VO5325-D3-100-T-30.000

Surface Mount VO5 Series CMOS VCXO, 5.0 x 3.2 mm, 3.3 VDC Supply Voltage, ±25 ppm Stability from -40°C to +85°C, ±100 ppm Frequency Adjustment Range, Symmetry 45% to 55%, 30.000 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



March 2017

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