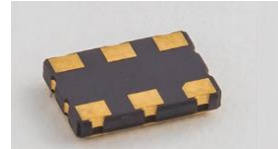


■ **ELECTRICAL SPECIFICATION**

PARAMETER		VALUE
Nominal Frequency (Fo)		122.880 MHz
Supply Voltage (Vs)		3.3 VDC ± 10%
Control Voltage Range (Vcc)		1.65 ± 1.65 VDC
Input Current		35 mA max
Frequency Stability (all included)		±25 ppm max
Frequency Adjustment Range		± 80 ppm min
Operating Temperature Range		-40°C ~ +85°C
Storage Temperature Range		-40°C ~ +100°C
Output LVDS	Symmetry at 50% Vs	45% ~ 55%
	Rise / Fall Time	0.4 ns max
	Logic "0" Level (V <sub>OL</sub> )	0.9Vmin / 1.1V typ
	Logic "1" Level (V <sub>OH</sub> )	1.43V typ / 1.6V max
	Load	100 Ω (OUT – IN)
Enable / Disable Function		Pin 1: High or Open / Output enabled Pin 1: Low / Output disabled (High impedance)
Phase Noise	@3.3 V & 155.520 MHz    @1 kHz	-120 dBc



■ **MECHANICAL SPECIFICATION**

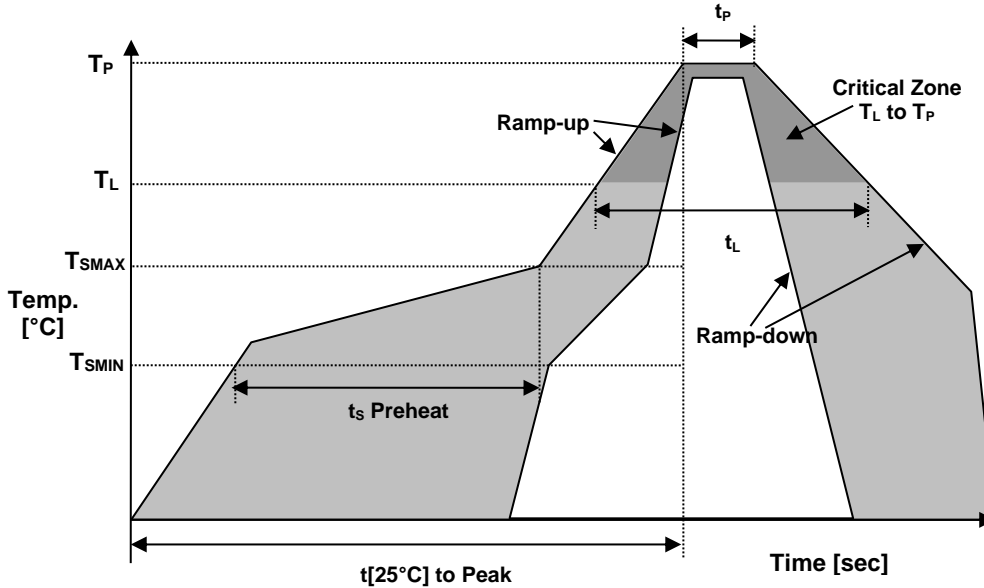
Pin Connections

- 1 – Vc
- 2 – Enable / Disable
- 3 – Ground
- 4 – Output
- 5 – Complimentary Output
- 6 – Vcc

**Recommended Soldering Pattern**

Unit: mm

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



APPROVAL

RALTRON	
DRAWN BY:	AR, May 14, 2020
APPROVED BY:	CP, May 14, 2020
REVISION:	A, Initial Release

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