

XCO393JV11-91.750



ELECTRICAL SPECIFICATIONS

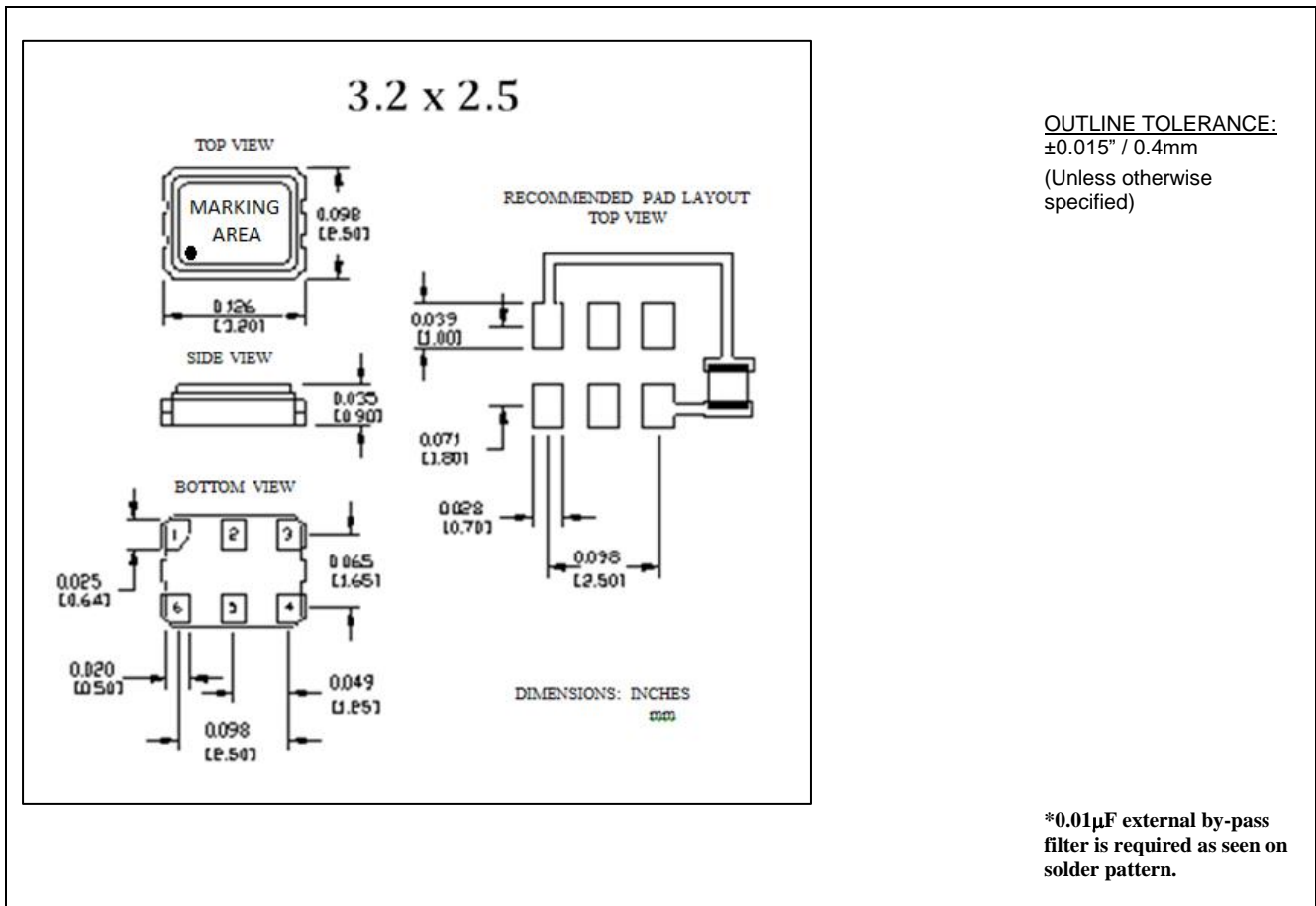
PARAMETER	SYMBOL	CONDITION	VALUE			UNIT
			Min.	Typ.	Max.	
Nominal Frequency	F ₁			91.750		MHz
Supply Voltage	V _{cc}	25°C	3.135	3.3	3.465	V
Supply Current	I _s	3.3V ±5%		75	90	mA
Total Frequency Stability	St	Over -40°C to +85°C	-100		100	ppm
Stability over Temperature	St/t	Over -40°C to +85°C	-50		+50	ppm
Enable/Disable, PIN # 1	E/D	Enable: High Level or Open	2.97			V
		Disable: Low Level or GND			0.2	V
Start-Up Time	t _{start}	T _a =25°C			10	ms
Operating Temperature Range	T _a		-40		85	°C
Storage Temperature Range	T _(stg)	Absolute max	-55		125	°C
Maximum Voltage	V _{cc(abs)}	Absolute max	-0.5		4.6	V
Moisture Sensitivity Level	MSL	JEDEC J-STD-2	1			
Termination Finish			3.2X2.5mm ceramic package, Nickel Silver cover, Au plating contacts.			
ESD Sensitivity	HBM	Human body model JESD22-A114		3		kV

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OUTPUT CHARACTERISTICS

	PARAMETER	SYMBOL	CONDITION	VALUE			UNIT
				Min	Typ.	Max	
LVPECL	Output levels	VOH	Output termination 50Ω to V _{cc} -2.0V, 3.3V ±5%	2.275			V
		VOL				1.68	V
	Rise/Fall time	Tr/Tf	20% to 80%		0.5	1.0	ns
	Differential Swing pk-pk	Vdiff	50Ω to V _{cc} -2.0V Load	800		1600	mV
	Single-ended Swing pk-pk	Ssw		400		800	mV
	Duty Cycle	D _{CY%}	-	45	50	55	%
	Output Load	O _{CL}	to V _{cc} -2.0V		50		Ω
	RMS Jitter	J	12kHz-20MHz		750	950	fs

MECHANICAL DIMENSIONS AND PIN FUNCTIONING



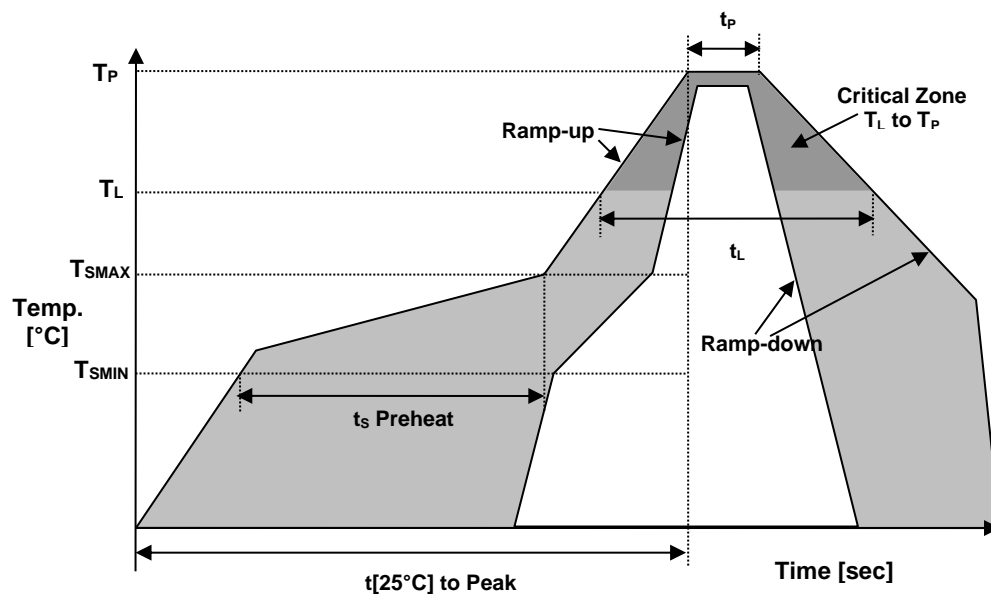
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PIN	SYMBOL	FUNCTION
1	OE	Enable/Disable
2	NC	Not Connected
3	GND	Case and Electrical Ground
4	Q	Output
5	/Q	Complementary output
6	Vcc	Supply Voltage

■ **Marking:**

XCO
91.75
• D/C

REFLOW PROFILE



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Recommended Solder Reflow Profile		
Temperature Min Preheat	T_{SMIN}	150°C
Temperature Max Preheat	T_{SMAX}	175°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 max.
Time $t_{[25^\circ\text{C}]}$ to Peak Temperature	$t_{[25^\circ\text{C}]}$ to Peak	480 sec.
Time	t_L	60-150 sec.

APPROVALS

Eng. approval, date: IM 01/19/2022

Created by, date: CP 01/19/2022

Revision: A