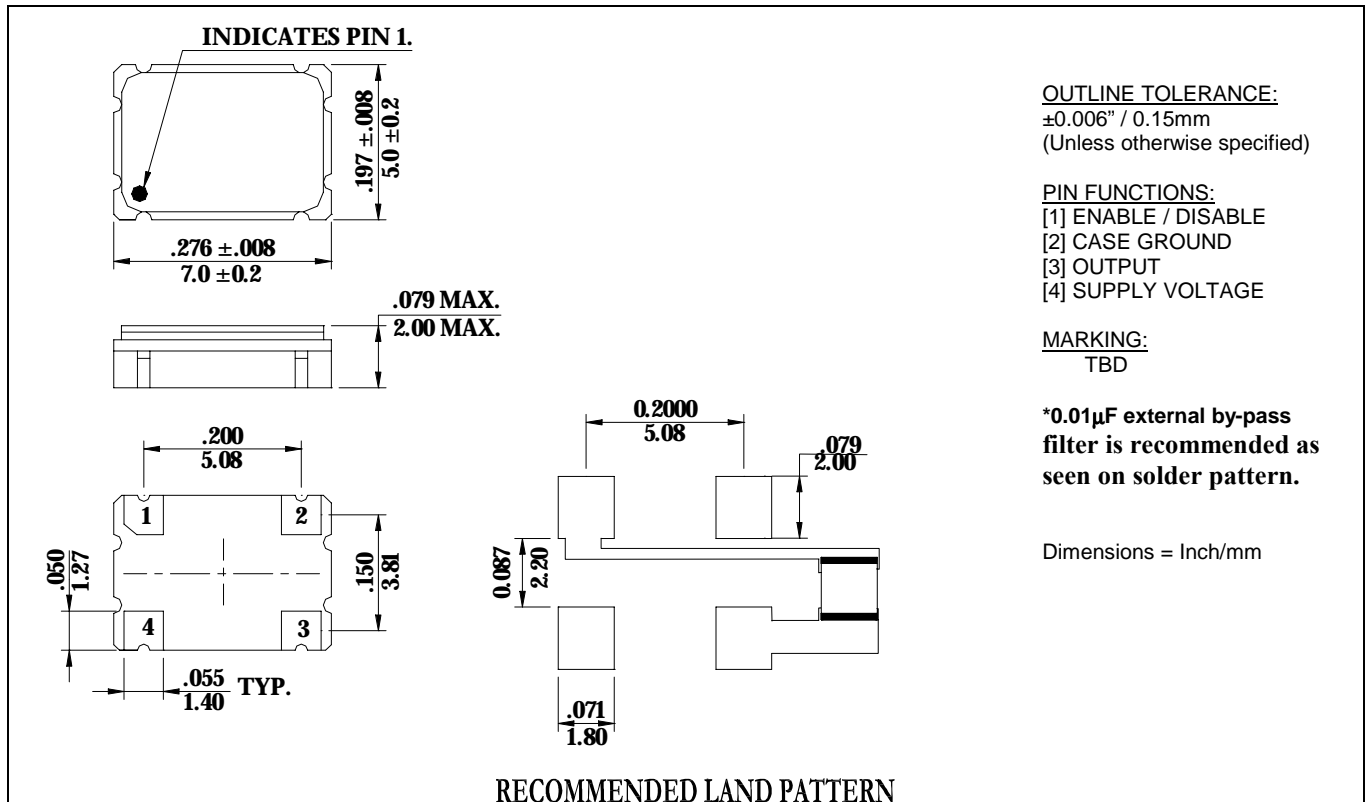


LOW CURRENT 5X7 HCMOS CLOCK

- SUITABLE FOR MOBILE APPLICATIONS
- AVAILABLE AT 2.7...5Vdc SUPPLY VOLTAGES

ROHS COMPLIANT

MECHANICAL SPECIFICATION



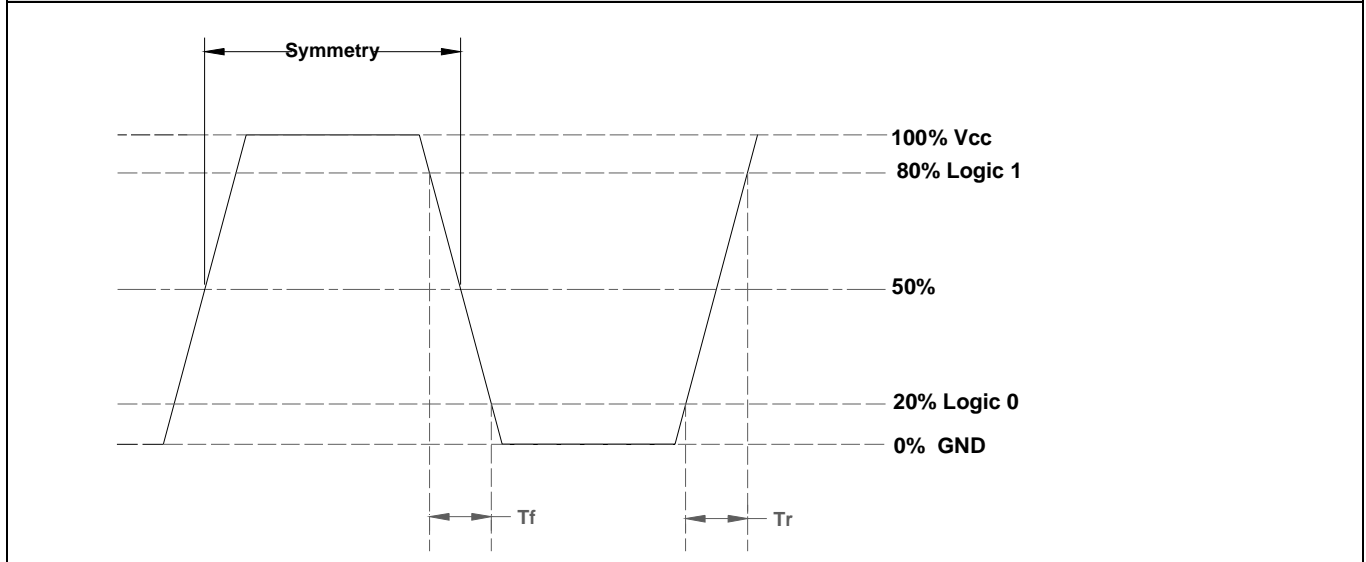
ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT	
Frequency, nom	fo	-	4.000~30.000	MHz	
Supply voltage, nom.	Vcc	Vcc±5%	2.7...3.3	5.0	V
Supply current, max.	Is	Vcc=2.7...5.0VDC, Ta=+25°C, load=15pF	3.0	4.6	mA
HCMOS output levels	VOH	Vcc=2.7...5.0VDC, load=15pF	2.2 min.	4.0 min.	V
	VOL	Vcc=2.7...5.0VDC, load=15pF	0.4 max.	0.4 max.	V
Duty cycle	DC	load=15pF / @50%Vcc, Ta=+25°C	40...60 OR 45...55	%	
Rise- / fall time, max.	tr / tf	20%~80% Vout, 80%~20% Vout	3.0...10.0 (SEE NOTE A)	ns	
Jitter, rms, max.	J	1σ, Fj = 12KHz...20MHz	1.0	ps	
Overall freq. stability, max.	Δf/fc	Including temperature, 10 year aging, +/-5% load & supply variations, and calibration @ +25°C.	SEE PART NUMBER GENERATION TABLE	ppm	
Enable option (pin 1)	En	High or open (min.)	0.7Vcc	V	
Disable option (pin 1)	Dis	Ground (output pin high impedance) (max.)	0.3Vcc	V	
Operating temperature range	Ta	Vcc=2.7...5.0VDC, Ta=+25°C, load=15pF	SEE PART NUMBER GENERATION TABLE	°C	
Storage temperature range	T(stg)	-	-55...+125	°C	
Absolute voltage range	Vcc(abs)	Non-destructive, DC	-0.5...+7.0	V	

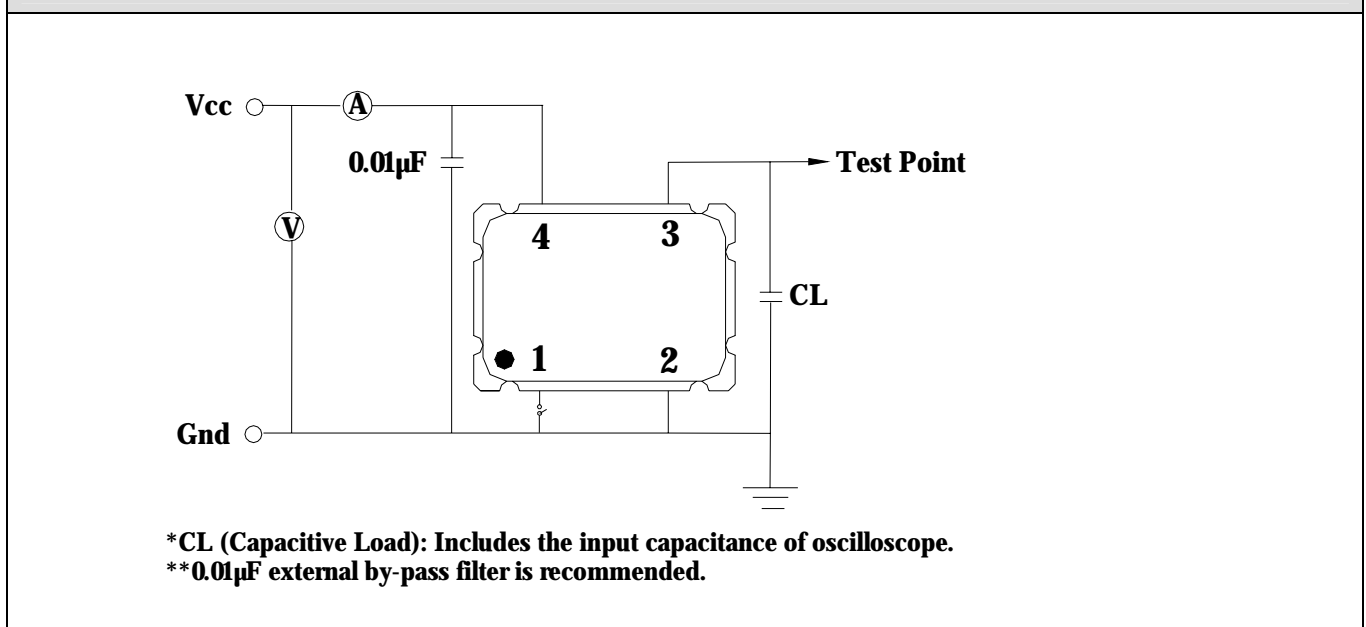
7/13/05marketing-rfq, vxco, Cx90ns

NOTE A: RISE AND FALL TIMES ARE FREQUENCY DEPENDENT.

WAVEFORM: LOAD = 15pF



RECOMMENDED TEST CIRCUIT WITH CMOS LOAD:



■ PART NUMBER GENERATION

SERIES	SYMMETRY	TEMPERATURE RANGE (°C)	STABILITY (Overall)	FREQUENCY (MHz)	SUFFIX
CSG: 2.7V HCMOS CS4: 3.3V HCMOS CS2: 5.0V HCMOS	A: 40%...60% T: 45%...55%*	R: 0...+50 S: 0...+70 U: -20...+70 X: -20...+80	I: ±25 ppm H: ±50 ppm J: ±100 ppm (See note 1 below)	4.000...30.000	LC (LOW CURRENT)

7/13/05 marketing-rfq, vxco, Cx90ns

NOTE 1:

Variations from standard specification are available, please contact factory.

*For 2.7VDC...3.3VDC SUPPLY, 45%...55% symmetry is only available up to 16MHz.

EXAMPLE: CSGASH-27.000-LC

■ REFLOW PROFILE

