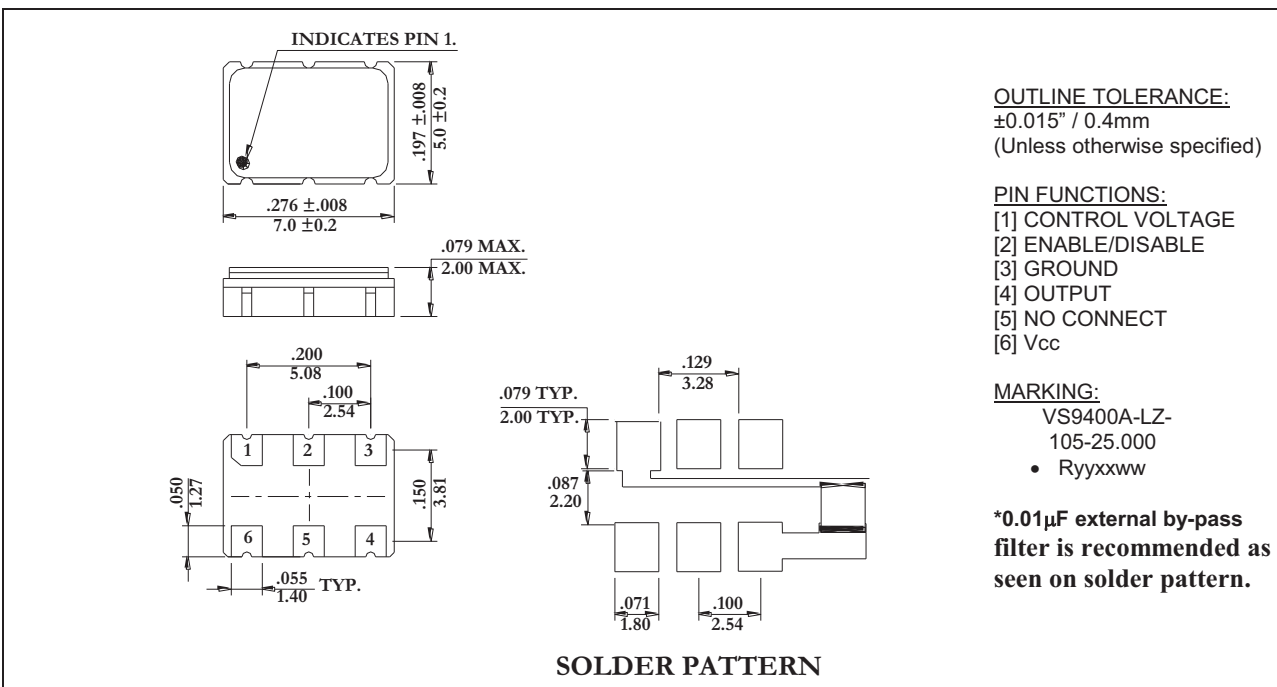


APPROVALS

RALTRON	
Created by, date:	ALAN 2/20/02
Eng. approval, date:	LUIS 2/20/02, FP 03/23/12
Revision:	



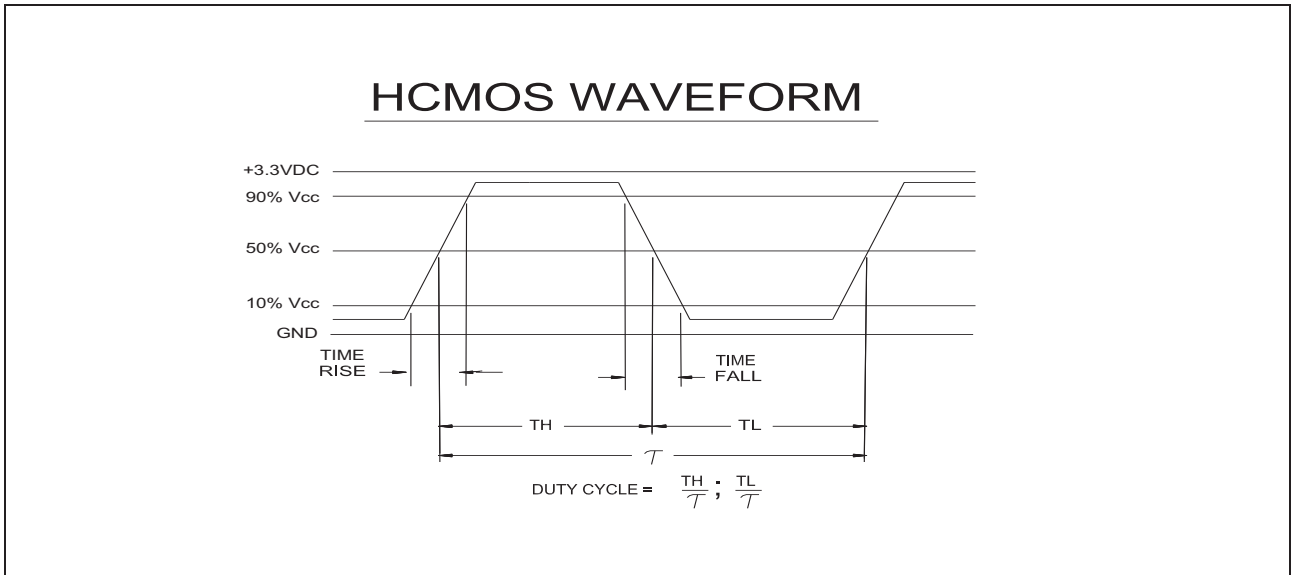
MECHANICAL SPECIFICATION



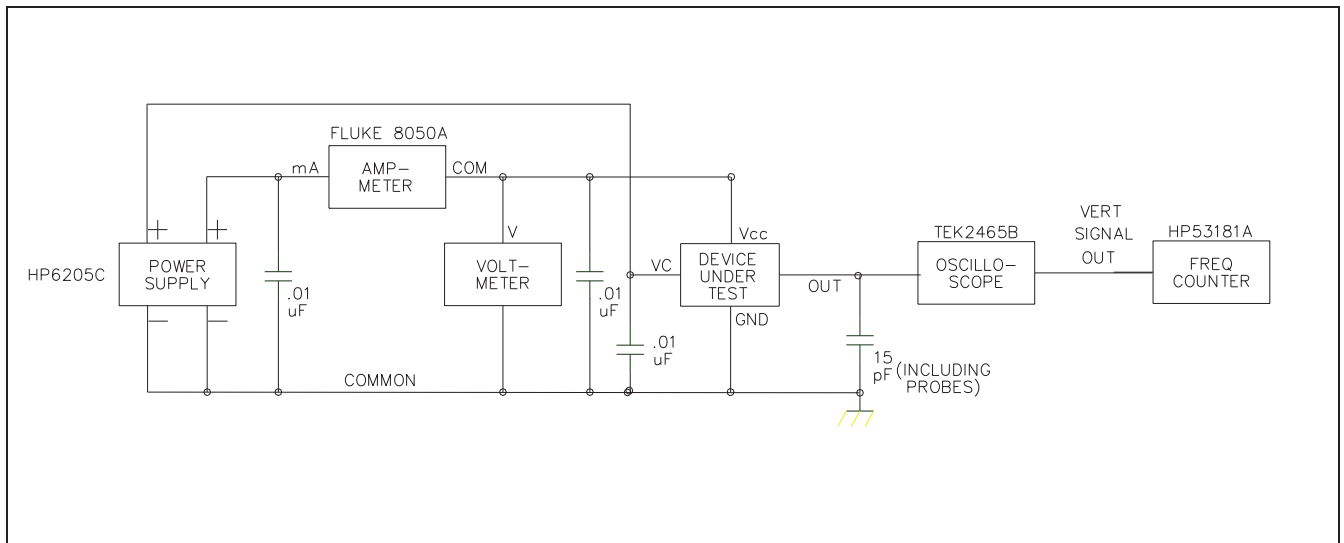
ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Frequency, nom	fo	-	25.000	MHz
Supply voltage, nom.	Vcc	Vcc±5%	+3.3	V
Supply current, max.	Is	Vcc=+3.3VDC, Vc=+1.65VDC, Ta=+25°C, 15pF load	35.0	mA
HCMOS/TTL compatible output	VOH / VOL	Vcc=+3.3VDC, load=15pF ±5%	2.97 / 0.3	V
Duty cycle	DC	load=15pF / @50%Vcc	40...60	%
Rise time / fall time, max.	tr / tf	10%~90% Vout, 90%~10% Vout, max	5.0	ns
Control voltage range	Vc	DC	0...+3.3	V
Absolute pull range	APR	min. guaranteed freq. shift from Fo over variations in operating temp., 10 year aging, ±5% power supply & load.	±105.0	ppm
Settability	Vfo	Ta=+25°C ±1°C	+1.65 ±0.25	V
Linearity, max.	Δf/V	Positive slope	± 10	%
Input impedance, min.	Zin	-	10.0	KΩ
Modulation freq. bandwidth, min.	MBW(-3dB)	Vcc=+3.3VDC, Vc=+1.65VDC, Ta=+25°C, 15pF load	10.0	KHZ
Enable option (pin 2)	En	High or open (min.)	+2.4	V
Disable option (pin 2)	Dis	Ground (output pin high impedance) (max.)	+0.4	V
Operating temperature range	Ta	-	0...+70	°C
Storage temperature range	T(stg)	-	-40...+85	°C
Absolute voltage ranges	Vcc, Vc(abs)	Non-destructive, DC	-0.5...+7.0	V

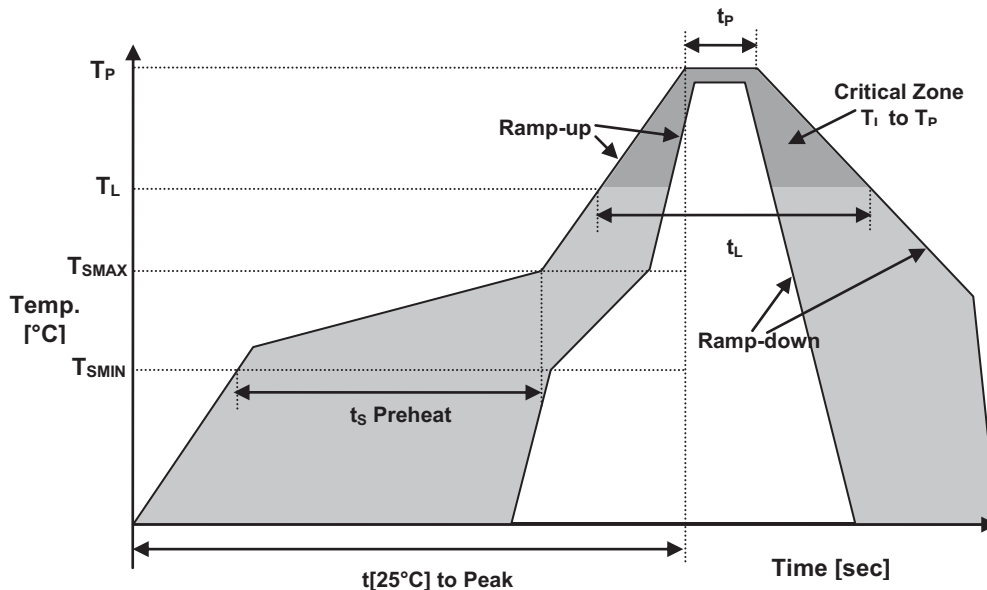
■ TIMING DIAGRAM



■ ELECTRICAL TEST DIAGRAM



■ 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	6/6 Lead Free
Termination Finish	Au