

FEATURES

- 5.0 VOLTS (+3.3 V AVAILABLE)
- FUNCTIONAL SAW BASE OSCILLATOR
- LOW JITTER PERFORMANCE, LESS THAN 1ps RMS
- 9x14 mm MINIATURE PACKAGE
- ENABLE/DISABLE FUNCTION
- COMPLIMENTARY OUTPUT

SPECIFICATIONS

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
FREQUENCY, NOM	f_o	-	622.080; 666.513	MHz
SUPPLY VOLTAGE, NOM	V_{cc}	$V_{cc} \pm 5\%$	+5.0	V
SUPPLY CURRENT, MAX	I_s	$V_{cc} = +5.0VDC$, $V_c = +2.5VDC$, $T_a = +25^\circ C$, 50Ω TO $V_{cc} - 2.0VDC$ LOAD	100.0	mA
PECL OUTPUT LEVELS	V_{OH}/V_{OL}	LOAD=50Ω TO $V_{cc} - 2.0VDC$	+3.98/+3.38	V
DUTY CYCLE	DC	LOAD=50Ω TO $V_{cc} - 2.0VDC$ / 50% V_{cc}	45...55	%
RISE AND FALL TIME	t_r / t_f	20% ~ 80% V_{out} , 80% ~ 20% V_{out} , MAX	550.0	ps
JITTER, rms, MAX	J	1σ, $F_j = 12kHz \dots 20MHz$	1.0	ps
CONTROL VOLTAGE RANGE	V_c	DC		
ABSOLUTE PULLING RANGE, MIN	APR	MIN. GUARANTEED FREQ. SHIFT FROM f_o OVER VARIATIONS IN TEMP., AGING, POWER SUPPLY AND LOAD	± 50.0	PPM
TRANSFER GAIN, TYP	K_v	OVER THE CONTROL VOLTAGE RANGE	150.0	PPM/V
FREQ. STABILITY VS. TEMPERATURE	$\Delta f/f_c (T_a)$	$T_a = -40^\circ C \dots +85^\circ C$, (REF. TO f_o)	± 150.0	PPM
SETTABILITY	V_{fo}	$T_a = +25^\circ C \pm 1^\circ C$	+2.5±0.5	V
LINEARITY, MAX	$\Delta f/V$	POSITIVE SLOPE	± 20	%
INPUT IMPEDANCE, MIN	Z_{in}	-	10.0	KΩ
MODULATION FREQ. BANDWIDTH, MIN	MBW(-3dB)	$V_{cc} = +5.0VDC$, $V_c = +2.5VDC$, $T_a = +25^\circ C$, 50Ω TO $V_{cc} - 2.0VDC$ LOAD	10.0	KHz
ENABLE	E_n	PIN 2=HIGH, $V_{cc} - 0.5V$ (MIN) OR OPEN	ENABLED	-
DISABLE	D_{is}	PIN 2=LOW, $V_{ee} + 1.4V$ (MAX)	PIN 4=HIGH, PIN 5=LOW	-
OPERATING TEMPERATURE	T_a	-	-40...+85	°C
STORAGE TEMPERATURE	$T(stg)$	-	-55...+105	°C
ABSOLUTE VOLTAGE RANGE	V_{cc} , $V_c(abs)$	NON-DESTRUCTIVE, DC	-0.5...+7.0	V

OUTLINE DRAWING

