

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

VS8850A-D3-FREQ.-CF-EH

SPECIFICATIONS

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
FREQUENCY, NOM	f _o	-	622.080; 666.513	MHz
SUPPLY VOLTAGE, NOM	V _{cc}	V _{cc} ±5%	+5.0	V
SUPPLY CURRENT, MAX	I _s	V _{cc} =+5.0VDC, V _c =+2.5VDC, Ta=+25°C, 50Ω TO V _{cc} -2.0VDC LOAD	100.0	mA
PECL OUTPUT LEVELS	VOH/VOL	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...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	Δf/f _c (Ta)	Ta=-40°C...+85°C, (REF. TO f _o)	±150.0	PPM
SETTABILITY	V _{fo}	Ta=+25°C ±1°C	+2.5±0.5	V
LINEARITY, MAX	Δf/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, Ta=+25°C, 50Ω TO V _{cc} -2.0VDC LOAD	10.0	KHz
ENABLE	En	PIN 2=HIGH, V _{cc} -0.5V (MIN) OR OPEN	ENABLED	-
DISABLE	Dis	PIN 2=LOW, V _{ee} +1.4V (MAX)	PIN 4=HIGH, PIN 5=LOW	-
OPERATING TEMPERATURE	Ta	-	-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

