

## 9X14 PECL J-LEADED VCXO (SEE PAGE TWO FOR PART NUMBERING SCHEME)

\*\*\*\*ROHS COMPLIANT\*\*\*

### ELECTRICAL SPECIFICATION

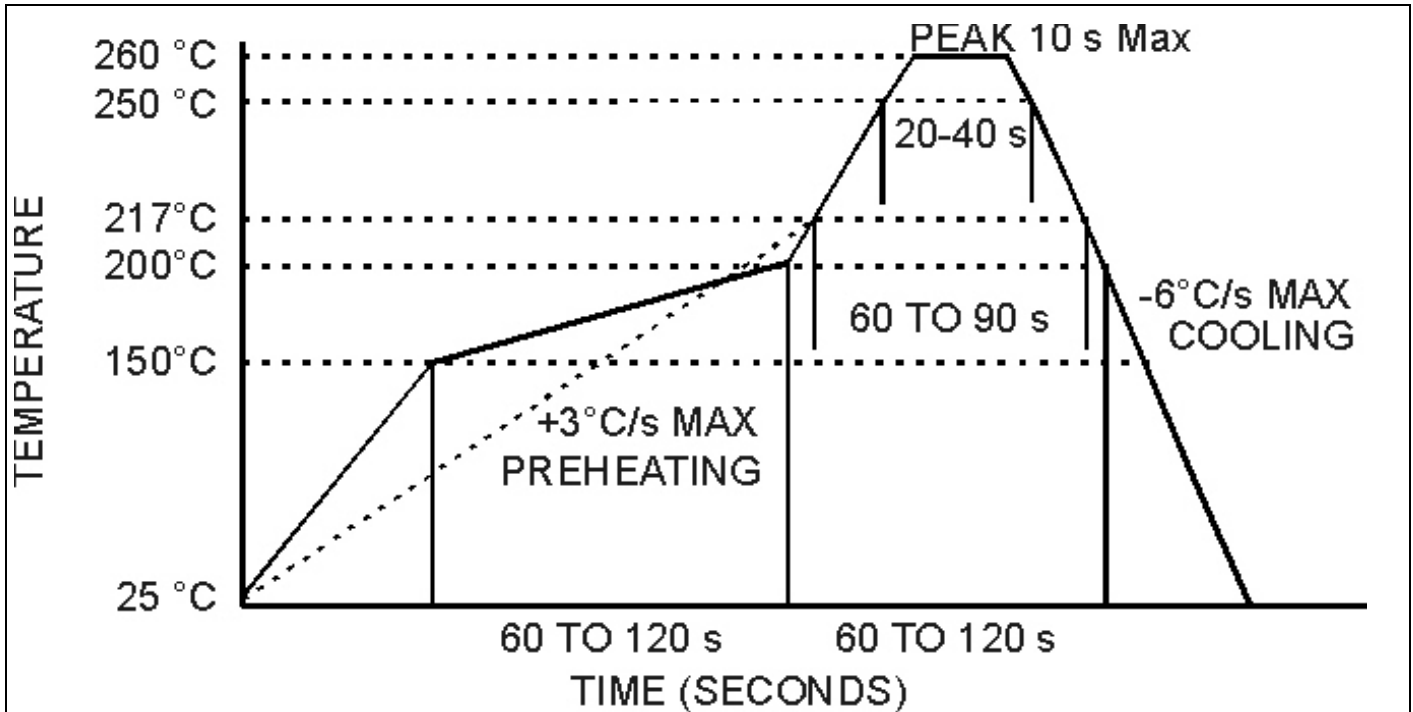
PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Frequency, nom	fo	-	70.000-207.000	MHz
Supply voltage, nom.	Vcc	Vcc±5%	<b>3.3VDC</b>   <b>5.0VDC</b>	V
Supply current, max.	Is	Vcc=+3.3V/Vc=+1.65V OR +5.0V/Vc=+2.5V Ta=+25°C, 50Ω to Vcc-2.0VDC load	135.0	mA
PECL output level	VOH / VOL	Vcc=+3.3VDC, load=50Ω to Vcc-2.0VDC	2.275 / 1.68   3.975/3.38	V
Duty cycle	DC	load=50Ω to Vcc-2.0VDC / @50%Vcc, Ta=+25°C	40...60 OR 45...55	%
Rise- / fall time, max.	tr / tf	20%~80% Vout, 80%~20% Vout, max	0.330...1.0 (see note A)	ns
Jitter, rms, max.	J	1σ, Fj=12KHz...20MHz	1.0	ps
Overall freq. stability, max.	Δf/fc	Including operating temp., ±5% load & supply variations, calibration @+25°C, and 10 year aging	SEE PART NUMBER GENERATION TABLE	ppm
Control voltage range	Vc	DC	0...+3.3   +0.5...+4.5	V
Pullability min	APR	Vc= 0~3.3V (at Vcc=3.3V ) Vc=0.5~4.5V (at Vcc=5.0V)	SEE PART NUMBER GENERATION TABLE	ppm
Linearity, max.	Δf/V	-	10	%
Input impedance, min.	Zin	-	10.0	KΩ
Modulation freq. bandwidth, min.	MBW (-3dB)	Vcc=+3.3V/Vc=+1.65V OR +5.0V/Vc=+2.5V Ta=+25°C, 50Ω to Vcc-2.0VDC load	10.0	KHz
Enable option	En	Pin 2=Low, Vcc-1.620 (max.)	Enabled	-
Disable option	Dis	Pin 2=High, Vcc-1.025 (min.)	Pin 5 will assume a fixed level of logic "0", and pin 4 will assume a fixed level of logic "1"	-
Operating temperature range	Ta	-	SEE PART NUMBER GENERATION TABLE	°C
Storage temperature range	T(stg)	-	-55...+90	°C
Absolute voltage ranges	Vcc, Vc(abs)	Non-destructive, DC	-0.5...+7.0	V

NOTE A: RISE AND FALL TIME VALUES (tr/tf) ARE FREQUENCY DEPENDENT.

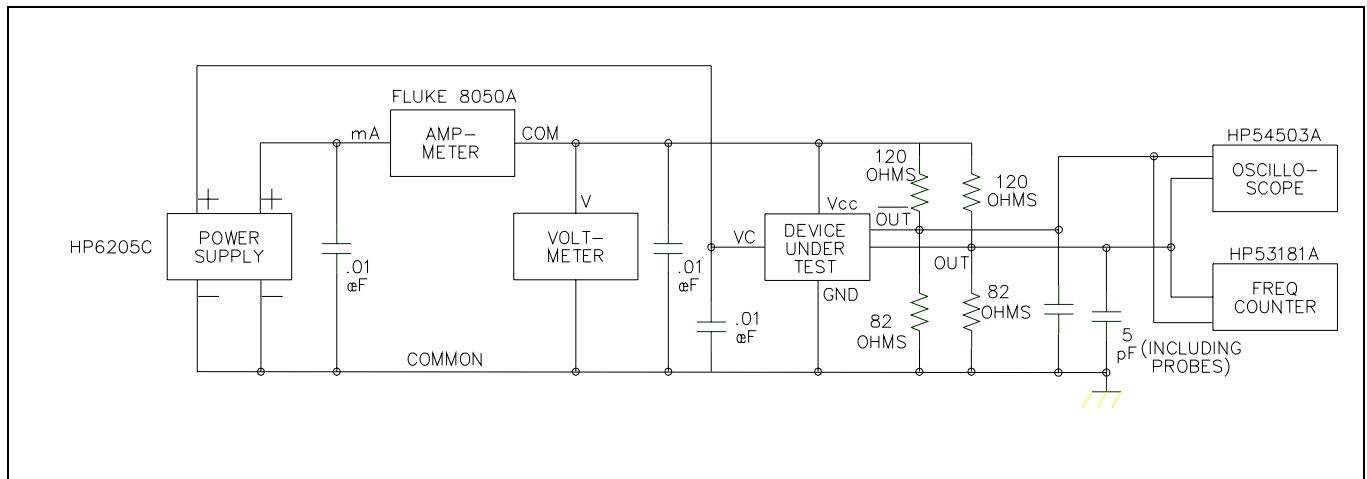
### MECHANICAL SPECIFICATION

6 pin Version	4 pin Version	OUTLINE TOLERANCE: ±0.015" / 0.4mm (Unless otherwise specified)
		<p><b>PIN FUNCTIONS (6 pins):</b>                      [1] VOLTAGE CONTROL                      [2] EN / DIS OR NC                      [3] CASE / GROUND                      [4] OUTPUT                      [5] COMP. OUTPUT OR NC                      [6] SUPPLY VOLTAGE</p> <p><b>PIN FUNCTIONS (4 pins):</b>                      [1] VOLTAGE CONTROL                      [2] CASE / GROUND                      [3] OUTPUT                      [4] SUPPLY VOLTAGE</p> <p><b>MARKING (EXAMPLE):</b>                      VE8950A-LZ                      155.520-T-C-EL                      R D/C</p>

■ REFLOW SOLDER



■ ELECTRICAL TEST DIAGRAM



■ PART NUMBER GENERATION

SERIES	OVERALL STABILITY	REV	TEMP. RANGE (°C)	PULLABILITY (PPM)	FREQUENCY (MHz)	OPTIONS	SUFFIX
VC88: 5.0V PECL, NO E/D VC89: 3.3V PECL, NO E/D VE88: 5.0V PECL, E/D VE89: 3.3V PECL, E/D	50: ±50ppm 00: ±100ppm	A	LV: 0...+50 LZ: 0...+70 HZ: -20...+70 D3: -40...+85	25:±25 ppm 30:±30 ppm 50:±50 ppm 80:±80 ppm 100:±100 ppm 150:±150 ppm	70.000...207.000	C: COMP. OUTPUT T: 45...55 DUTY	EL (See note 2)

NOTE:

- Variations from standard specification are available, please contact factory.
- EL is added at the end of the part number for all PECL vcxo's with enable/disable option.

3/6/02rketng-rfq, vcxo

EXAMPLE: VE8950A-LZ-100-155.520-T-C-EL