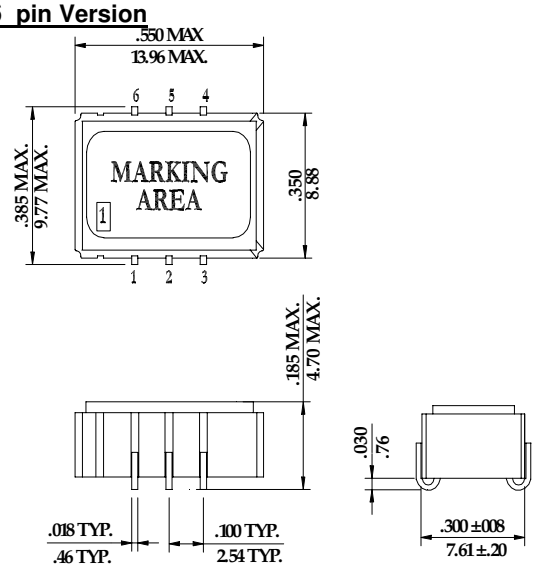
9X14 PECL J-LEAD CLOCK- PB FREE COMPLIANT
(SEE PAGE TWO FOR PART NUMBERING SCHEME)

■ **APPROVALS**

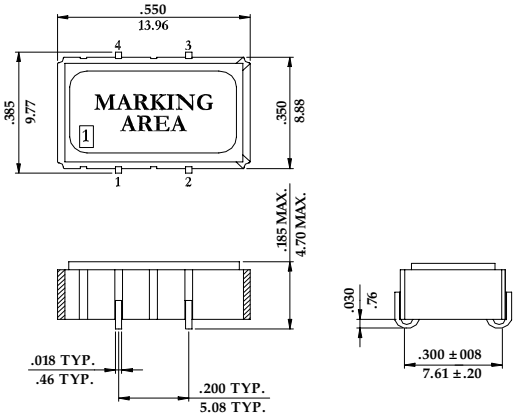
RAMI	CUSTOMER
Eng. approval, date: RONEN 3/20/03	Name (please print):
Sales approval, date:	Title (please print):
Created by, date: RONEN 3/20/03	Signature, date:
Revision:	

■ **MECHANICAL SPECIFICATION**

6 pin Version



4 pin Version



OUTLINE TOLERANCE:
±0.015" / 0.4mm
(Unless otherwise specified)

PIN FUNCTIONS (6 pins):
[1] NC OR COMP. OUTPUT
[2] EN / DIS OR NC
[3] CASE / GROUND
[4] OUTPUT
[5] COMP. OUTPUT OR NC
[6] SUPPLY VOLTAGE

PIN FUNCTIONS (4 pins):
[1] E/ D OR N/C OR COMP. OUT
[2] CASE / GROUND
[3] OUTPUT
[4] SUPPLY VOLTAGE

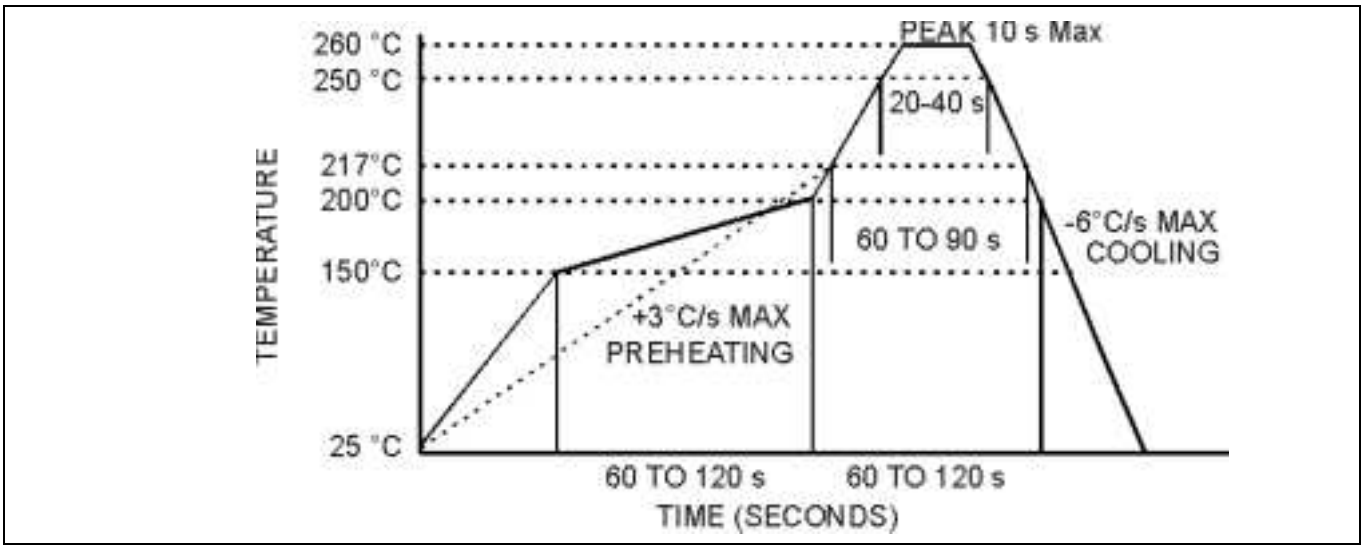
MARKING (EXAMPLE):
CE8950A-LZ
155.520-T-C-EL
R D/C

■ **ELECTRICAL SPECIFICATION**

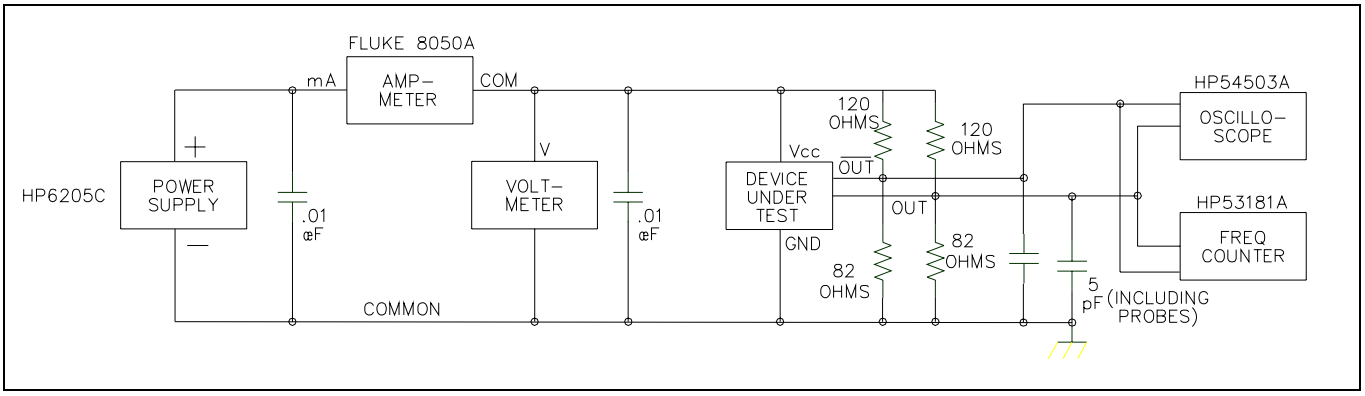
PARAMETER	SYMBOL	CONDITIONS	VALUE		UNIT
Frequency, nom	fo	-	70.000~250.0		MHz
Supply voltage, nom.	Vcc	Vcc±5%	**3.3VDC**	**5.0VDC**	V
Supply current, max. (excluding load)	Is	Vcc=+3.3VDC/+5.0VDC Ta=+25°C, 50Ω to Vcc-2.0VDC load	100		mA
PECL output level	VOH / VOL	Vcc=+3.3VDC/+5.0VDC load=50Ω to Vcc-2.0VDC	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	0.100…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 temperature, ±5% load & supply variations, calibration @+25°C, and 10 year aging	SEE PART NUMBER GENERATION TABLE		ppm
Enable option	En	Pin 2=Low, Vcc-1.620 (max.)	Enabled		-
Disable option	Dis	Pin 2=High, Vcc-1.025 (min.)	Pin 4 will assume a fixed level of logic "0", and pin 5 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 range	Vcc(abs)	Non-destructive, DC	-0.5…+7.0		V

3/20/03 marketing-rfq, clock

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



■ **ELECTRICAL TEST DIAGRAM FOR 3.3V PECL CLOCK WITH COMP. OUTPUT**



■ **PART NUMBER GENERATION**

SERIES	OVERALL STABILITY	REV	TEMP. RANGE (°C)	FREQUENCY (MHz)	OPTIONS	SUFFIX	PIN SUFIX OPTION
CO88: 5.0V PECL, NO EN/DIS CO89: 3.3V PECL, NO EN/DIS CE88: 5.0V PECL, EN/DIS CE89: 3.3V PECL, EN/DIS	50: ±50ppm 00: ±100ppm	A	LV: 0…50 LZ: 0…+70 HZ: -20…+70 D3: -40…+85	70.000…250.0	T: 45…55 DUTY C: COMP. OUTPUT C1: COMP. OUTPUT PIN 1 (See Note 3)	EL (See note 2)	4: 4 PINS

NOTE:

5/13/02rketing-rfq, vcxo

1.Variations from standard specification are available, please contact factory.
2.EL is added at the end of the part number for all PECL clocks with enable/disable option.
3. C1 suffix to be applied only when using the 6 pins package version

PART NUMBER EXAMPLE: CE8950A-LZ-155.520-T-C-EL