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

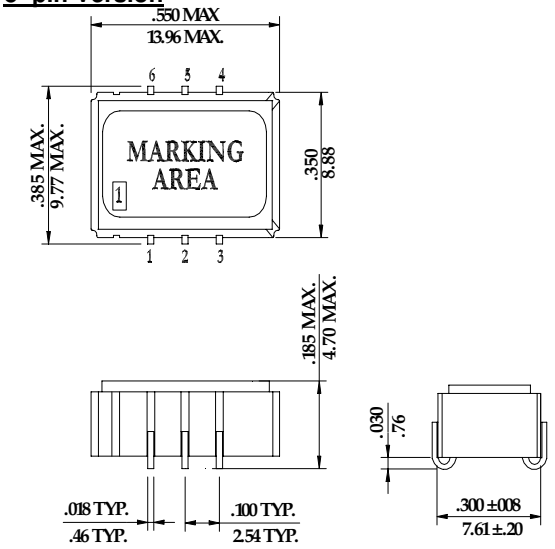
■ ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE		UNIT
Frequency, nom	fo	-	70.000~207.000		MHz
Supply voltage, nom.	Vcc	Vcc±5%	**3.3VDC**	**5.0VDC**	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

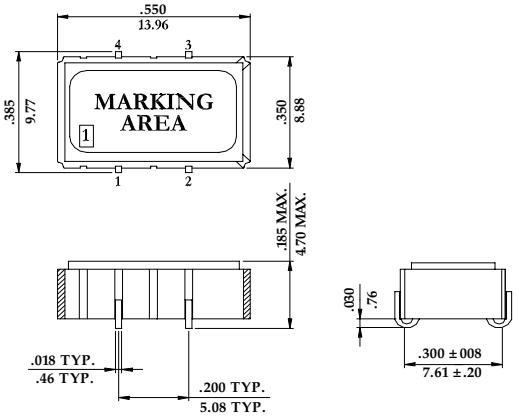
NOTE A: RISE AND FALL TIME VALUES (tr/tf) ARE FREQUENCY DEPENDENT.

■ MECHANICAL SPECIFICATION

6 pin Version



4 pin Version



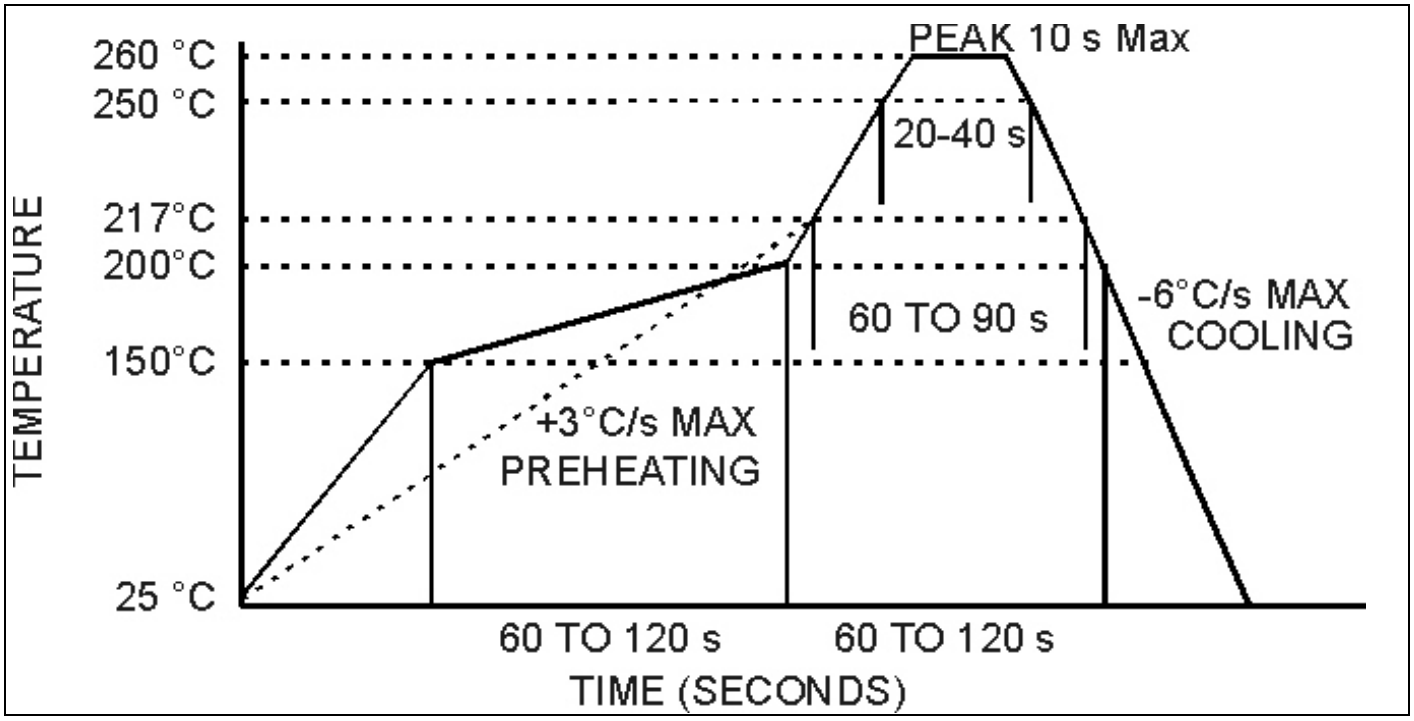
OUTLINE TOLERANCE:
±0.015" / 0.4mm
(Unless otherwise specified)

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

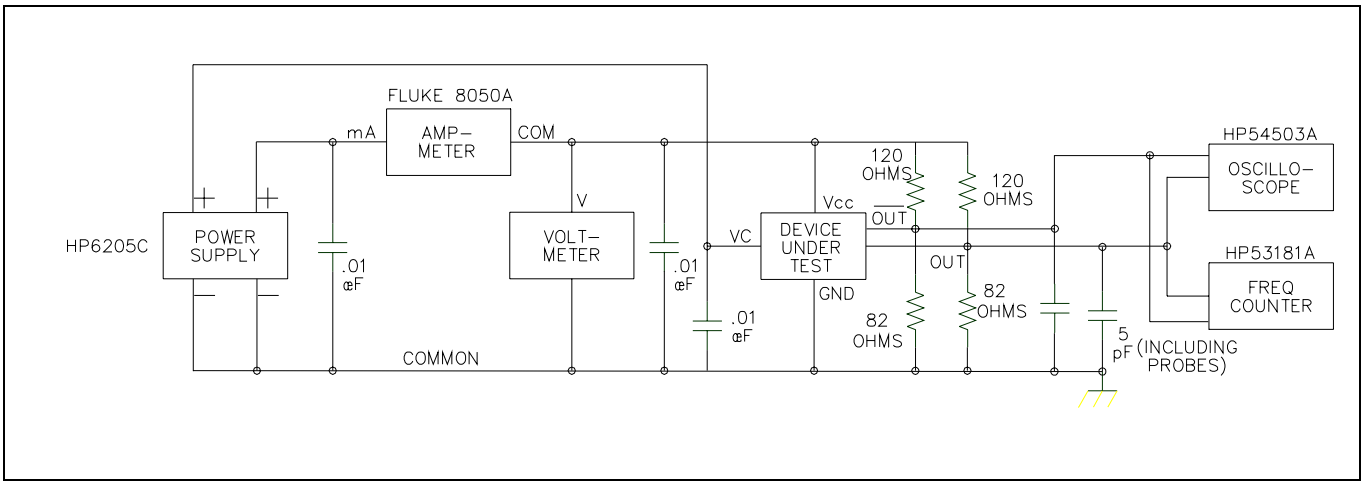
PIN FUNCTIONS (4 pins):
[1] VOLTAGE CONTROL
[2] CASE / GROUND
[3] OUTPUT
[4] SUPPLY VOLTAGE

MARKING (EXAMPLE):
VE8950A-LZ
155.520-T-C-EL
RAL D/C

■ **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:

3/6/02rketing-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 vcxo's with enable/disable option.

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