

## HCMOS, 9X14,J-LEAD, CLOCK - PB FREE COMPLIANT (SEE PART NUMBERING SYSTEM FOR PART NUMBER)

### APPROVALS

RALTRON	CUSTOMER
Eng. approval, date: Ronen 8/19/04	Name (please print):
Sales approval, date:	Title (please print):
Created by, date: Ronen 8/19/04	Signature, date:
Revision:	

### MECHANICAL SPECIFICATION

<p>Top view dimensions: .550 (13.96), .385 MAX. (9.77 MAX.), .350 (8.88), .185 MAX. (4.70 MAX.), .018 TYP., .46 TYP., .100 TYP., 2.54 TYP., .300 ±.008, 7.61 ±.20</p> <p>Side view dimensions: .080, .76</p> <p>Bottom view dimensions: .018 TYP., .46 TYP., .200 TYP., 5.08 TYP., .300 ±.008, 7.61 ±.20</p>	<p>Top view dimensions: .550 (13.96), .385 (9.77), .350 (8.88), .185 MAX. (4.70 MAX.), .018 TYP., .46 TYP., .200 TYP., 5.08 TYP., .300 ±.008, 7.61 ±.20</p> <p>Side view dimensions: .080, .76</p> <p>Bottom view dimensions: .018 TYP., .46 TYP., .200 TYP., 5.08 TYP., .300 ±.008, 7.61 ±.20</p>	<p><b>OUTLINE TOLERANCE:</b> ±0.015" / 0.4mm (unless otherwise specified)</p> <p><b>6 PIN FUNCTIONS:</b> [1] NO CONNECT [2] N/C or ENABLE / DISABLE [3] CASE/GROUND [4] OUTPUT [5] NO CONNECT [6] SUPPLY VOLTAGE</p> <p><b>4 PIN FUNCTIONS:</b> [1] N/C or ENABLE / DISABLE [2] CASE/GROUND [3] OUTPUT [4] SUPPLY VOLTAGE</p> <p><b>MARKING, EXAMPLE:</b> CO8450A-LZ FREQ.-T-4 RALTRON D/C</p>
--	--	--

### ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Frequency, nom	fo	-	1.000-160.000	MHz
Supply voltage, nom.	Vcc	Vcc±5%	+3.3      +5.0	V
Supply current, max.	Is	Vcc=+3.3/+5.0VDC, Ta=+25°C, load=15pF	35.0...70.0	mA
HCMOS/TTL compatible output	VOH / VOL	Vcc=+3.3/+5.0VDC, load=15pF	2.97 / 0.33      4.5 / 0.5	V
Duty cycle	DC	load=15pF / @50%Vcc, Ta=+25°C	40...60 OR 45...55	%
Rise- / fall time, max.	tr / tf	20%~80% Vout, 80%~20% Vout	3.0...10.0	ns
Overall freq. stability, max.	Δf/fc	Including operating temperature, ±5% load & supply variations, 10 year aging, and calibration @+25°C	±20.0...±100.0	ppm
Enable option (pin 2)	En	High or open (min.)	+2.4	V
Disable option (pin 2)	Dis	Ground (output pin high impedance) (max.)	+0.4	V
Jitter, rms, max.	J	1σ, Fj=12KHz...20MHz	1.0	ps
Operating temperature range	Ta	-	0...+70 TO -40...+85	°C
Storage temperature range	T(stg)	-	-55...+125	°C
Absolute voltage range	Vcc(abs)	Non-destructive, DC	-0.5...+7.0	V

3/19/02 marketing-rfq, vcxo

### PART NUMBERING SYSTEM:

PACKAGE	OUTPUT TYPE	STABILITY	TEMP. RANGE	REV.	FREQ. (MHz)	OPTIONS
CO8- NO ENABLE /DISABLE	2- +5VOLT HCMOS	**20:±20ppm	LV: 0°C...+50°C	A	1.000-160.000*	T: TIGHT SYMM.
CE8- ENABLE /DISABLE	4- +3.3VOLT HCMOS	**25:±25ppm 50: ±50ppm 00: ±100ppm	JZ: -10°C...+70°C LZ: 0°C...+70°C D3: -40°C...+85°C		(fundamental or 3OT design)	4: FOUR PINS

EX. CO8400A-LZ-77.760-T-4

DEVIATIONS FROM STANDARD ARE AVAILABLE, PLEASE CONSULT FACTORY.

• FROM 125.000 MHz TO 160.000 MHz ONLY 3.3V SUPPLY IS AVAILABLE.

\*\* Not Available with industrial temperature option

