HIGH STABILITY THROUGH HOLE CLOCK OSCILLATORS

SERIES CX71, CX72 AND CX73

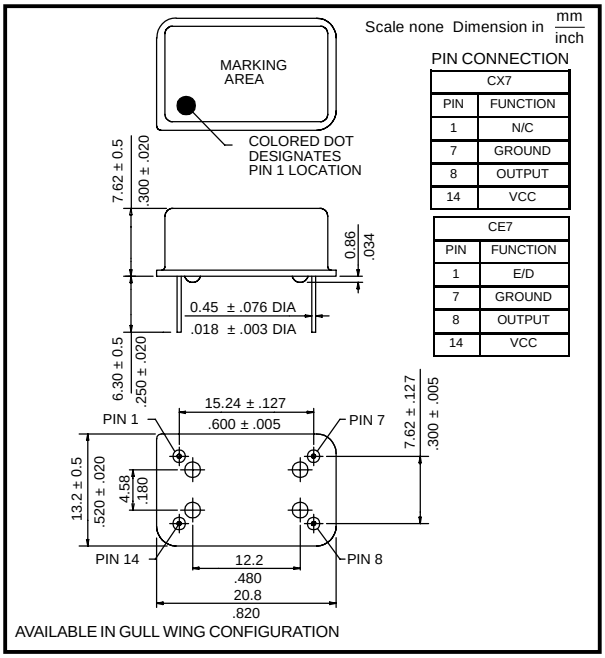
FEATURES

- COST EFFECTIVE MPU CLOCK
- TOLERANCE AND STABILITY TO ± 5 PPM
- CUSTOM SPECIFICATIONS

SPECIFICATIONS

FREQUENCY RANGE	1.00 MHz TO 125.00 MHz
FREQUENCY STABILITY OVER TEMPERATURE RANGE (REF. TO25°C)	±5 PPM TO ±50 PPM MAX AT VCC = +5.0 VDC (SEE TABLE 1)
OPERATING TEMPERATURE RANGE	0°C TO +50°C (NARROW) 0°C TO +70°C (STANDARD) -40°C TO +85°C (EXTENDED) AT VCC = +5.0VDC AND STANDARD LOAD (SEE TABLE 1)
STORAGE TEMPERATURE RANGE	-40°C TO +85°C
AGING CHARACTERISTICS	±4 PPM MAX FOR THE FIRST YEAR AND ±20 PPM MAX FOR 10 YEARS
OUTPUT WAVEFORM OPTIONS	TTL, HCMOS, OR ACMOS
FREQUENCY STABILITY OVER LOAD VARIATION	±3 PPM MAX FOR 10% VARIATION AT VCC = +5.0 VDC AT 25°C
SUPPLY VOLTAGE	+5.0 VDC ±5% (3.3 VDC AVAILABLE)
ENABLE DISABLE FUNCTION	CONTROL PIN 1: HIGH OR OPEN (+2.0 VDC MIN)OUTPUT PIN 14: ENABLED CONTROL PIN 1: LOW OR GND (+0.8 VDC MIN)OUTPUT PIN 14: DISABLED (HIGH Z)
FREQUENCY STABILITY OVER SUPPLY VOLTAGE VARIATION	±5 PPM MAX FOR 5% VARIATION AT VCC = +5.0 VDC AND STANDARD LOAD AT 25°C
SUPPLY CURRENT	50 mA MAX AT VCC = +5.0 VDC AND STANDARD LOAD AT 25°C

OUTLINE DRAWING



PIN CONNECTION

CX7	
PIN	FUNCTION
1	N/C
7	GROUND
8	OUTPUT
14	VCC

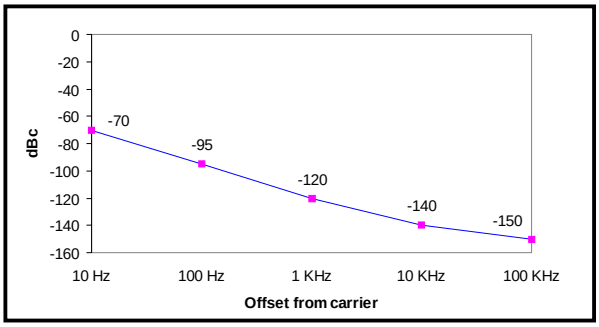
CE7	
PIN	FUNCTION
1	E/D
7	GROUND
8	OUTPUT
14	VCC

TEMPERATURE RANGE DESIGNATIONS

TABLE 1

CODE	TEMPERATURE RANGE	TEMPERATURE STABILITY
A	0°C TO +50°C	± 5 PPM
B	0°C TO +50°C	± 10 PPM
C	0°C TO +50°C	± 15 PPM
D	0°C TO +50°C	± 20 PPM
E	0°C TO +50°C	± 25 PPM
F	0°C TO +70°C	± 10 PPM
G	0°C TO +70°C	± 15 PPM
H	0°C TO +70°C	± 20 PPM
I	0°C TO +70°C	± 25 PPM
J	0°C TO +70°C	± 35 PPM
K	0°C TO +70°C	± 50 PPM
L	-40°C TO +85°C	± 20 PPM
M	-40°C TO +85°C	± 25 PPM
O	-40°C TO +85°C	± 30 PPM
P	-40°C TO +85°C	± 35 PPM
Q	-40°C TO +85°C	± 50 PPM

PHASE NOISE CHARACTERISTICS



MECHANICAL CHARACTERISTICS

MECHANICAL SHOCK	IEC-68-2-27 TEST EA, 30g FOR 18 ms HALFSINE
VIBRATION	IEC 68-2-6 (TEST FC) 0.35 mm, 5g, 10-2 kHz, 6 CYCLES AXIS
THERMAL SHOCK	IEC 68-2-14 (TEST NA), 30 min IN EACH TEMPERATURE EXTREME
SEAL	IEC 68-2-17 (TEST QC)
SOLDERING HEAT	IEC 68-2-20A
MECHANICAL	14 PIN DIP, LEADED, PER OUTLINE DRAWING

PART NUMBERING SYSTEM

SERIES	OUTPUT		CODE		FREQUENCY		SYMMETRY
CO7 CE7	1 2 3	TTL HCMOS ACMOS	A THROUGH M	-	IN MHz	-	T (45/55%)

EXAMPLE:
CO73B-27.000
ACMOS OUTPUT, ±15 PPM OVER 0° C TO +50° C