

4-Pad HCMOS Ceramic CLOCK with Tri-State in 5 x 7mm Housing

SPECIFICATION AT +3.3 Vdc

SPECIFICATION AT +5.0 Vdc

FREQUENCY RANGE		1.000 to 156.25 MHz	1.544 to 125.000 MHz
OUTPUT			
Waveform		HCMOS	
Level		'0' <0.4 V	
		'1' >3.0 V	'1' > 4.5 V
@ Load		30 pF in parallel with 10 kOhms	
With Rise/Fall			
At 10% to 90% of Vcc	4.5 nSec max		4.5 nSec max
and Symmetry at 50% of Vcc		45-55% at 50% of Vcc	
Enable Function (Tri-State)			
"1" >2.4 V min or non-terminated		Output enabled	
"0" <0.4 V max with 400 uA sink		Output disabled and Tri-State (Zout >10 kOhms)	
INPUT			
Vcc	+3.3 ±10%	+5.0 ±10%	
Current at 30 pF load, <30 MHz	8.0 mA, max	15.0 mA, max	
>30 MHz	16.0 mA, max	35.0 mA, max	
STABILITY			
Narrow range 0° to +70°C		±20, 25, 50 or 100 ppm maximum including set-on	
Wide range -40° to +85°C		±50, 75 or 100 ppm maximum including set-on	
Aging		±3.0 ppm first year, ±1.0 ppm thereafter	
Pushing with ±10% Vcc	±2.0 ppm		±2.0 ppm
Jitter, Pulse Over Pulse RMS	8 pSec, typ		8 pSec, typ

PART NUMBER INFORMATION

3.3 Volt Vcc Supply
Temperature Range:
0° to +70°C

C85A939-xxx.xM-x

Specified Frequency ↑
Temperature Stability ↑
A = ±20 ppm
B = ±25 ppm
C = ±50 ppm
D = ±100 ppm

3.3 Volt Vcc Supply
Temperature Range:
-40° to +85°C

C85A985-xxx.xM-x

Specified Frequency ↑
Temperature Stability ↑
A = ±50 ppm
B = ±75 ppm
C = ±100 ppm

5.0 Volt Vcc Supply
Temperature Range:
0° to +70°C

C85A940-xxx.xM-x

Specified Frequency ↑
Temperature Stability ↑
A = ±20 ppm
B = ±25 ppm
C = ±50 ppm
D = ±100 ppm

5.0 Volt Vcc Supply
Temperature Range:
-40° to +85°C

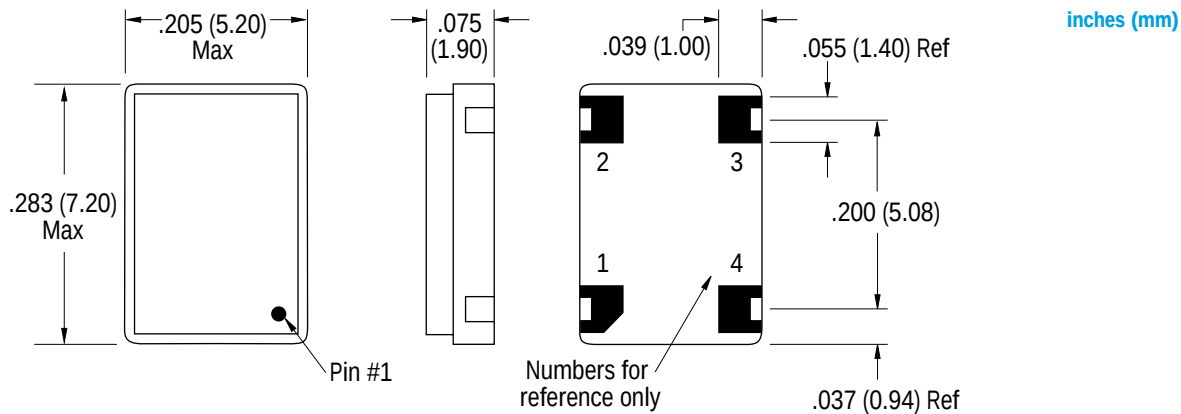
C85A949-xxx.xM-x

Specified Frequency ↑
Temperature Stability ↑
A = ±50 ppm
B = ±75 ppm
C = ±100 ppm



**4-Pad HCMOS Ceramic CLOCK with Tri-State
in 5 x 7mm Housing****SURVIVABILITY**

Temperature Cycle	<±5 ppm when exposed to 2 hours max from 0° to +120°C each temperature
Storage Temperature	-65° to +125°C
Mechanical Shock	1000 G's, halfsine pulse @ 0.35 mSec, 3 axis
Vibration	20 G's, swept sine wave 10 to 2000 Hz

**MAXIMUM DIMENSIONS**

0.283" x 0.205" x 0.075"
(7.20 x 5.20 x 1.90 mm)

PIN CONNECTIONS

Pin 1	Floating or '1': Oscillator Runs Ground or '0': Disable or Tri-State
Pin 2	Ground
Pin 3	Output
Pin 4	+Vcc

