

## Overall stability ± 100ppm

Power Supply

SMD Ceramic Clock-Oscillator

20 to 160MHz

FREQUENCY STABILITY

OVER:

OPERATING TEMP. RANGE: See note 1 **OVERALL STABILITY:** < ±100ppm \*

INCLUDING:

**OVER OPERATING TEMPERATURE RANGE** 

ADJUSTMENT @ 25 ℃

LONG TERM AGING (10 YEARS)

STABILITY OVER SUPPLY VOLTAGE ±10%

STABILITY OVER LOAD (MIN. TO MAX.)

**POWER SUPPLY** 

SUPPLY VOLTAGE: Vdd = 5V ±10% \*

**INPUT CURRENT:** < 50mA\*

**OUTPUT** 

**OUTPUT SIGNAL:** AC-MOS compatible \* SYMMETRY: 40 / 60% (min.) @ Vdd / 2\* **RISE & FALL TIME:** tr < 3ns tf < 3ns \* > Vdd - 0.5V < 0.4V LEVEL "0" & "1":

START-UP TIME: < 5ms FAN OUT (LOAD): 10 TTL / LS \*

**ENVIRONMENT** 

**OPERABLE TEMP. RANGE:** -55 to +125 ℃ STORAGE TEMP. RANGE: -65 to +125 ℃ VIBRATIONS: 10 to 2000Hz / 10g SHOCKS: 5000g, 0.3ms, 1/2 sine PACKAGE: Ceramic

**PACKAGE DIMENSIONS:** 14.1 x 9.3 x 2.4mm (see packaging info)

PROCESSING: Reflow soldering 260 ℃ / 10s max.

(see packaging info)

## **MISCELLANEOUS**

Customer's specification on request

Note 1: Operating Temperature Range

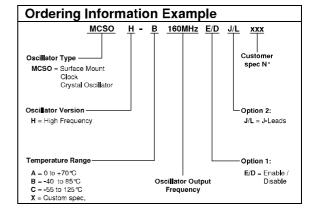
MCSOH-A: 0 to +70 ℃ MCSOH-B: -40 to +85 ℃ -55 to +125 ℃ MCSOH-C:

Option 1: Enable / Disable (on request) See application circuit on page 2 for details Pin 3 (Fout):: Open Clock Н Clock High Z

Option 2: J / Leads (on request)

With tinned J / Leads pins Height: 3.8mm included J / Leads

Marking Example						
Micro Crystal		Micro Crystal				
MCSOH-B	E/D	Type Frequency	Option 1			
160.000 MHz	09.42	Frequency	Date Code			
0		O (PIN 1)				



STANDARD FREQUENCIES [MHz]							
40.0000	40.6000	40.9600	44.2368	48.0000	49.1520		
50.0000	50.7500	51.1500	51.2000	<i>52.0000</i>	<i>55.2960</i>		
<i>58.9824</i>	60.0000	60.9000	61.3800	61.4400	64.0000		
65.0000	<i>65.5360</i>	<i>66.3552</i>	72.0000	<i>73.7280</i>	76.8000		
78.0000	80.0000	81.2000	81.8400	81.9200	88.4736		
90.0000	96.0000	98.3040	100.0000	102.4000	104.0000		
108.0000	110.5920	117.9640	120.0000	125.0000	128.0000		
131.0720	132.7104	144.0000	150.0000	160.0000			

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In accordance with our policy of continuous development and improvement, we reserve the right to modify the design or the specifications of our products without prior notice.

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