

SMD Ceramic Clock-Oscillator

Overall stability ± 50ppm Power Supply

Up to 20MHz

FREQUENCY STABILITY

OVER:

OPERATING TEMP. RANGE: See note 1 **OVERALL STABILITY:** < ±50ppm * INCLUDING:

OVER OPERATING TEMPERATURE RANGE

ADJUSTMENT @ 25 ℃

LONG TERM AGING (1 YEARS)

STABILITY OVER SUPPLY VOLTAGE ±10%

STABILITY OVER LOAD (MIN. TO MAX.)

POWER SUPPLY

SUPPLY VOLTAGE: Vdd = 5V ±10% *

INPUT CURRENT: < 15mA*

OUTPUT

OUTPUT SIGNAL: HC-MOS compatible * SYMMETRY: 40 / 60% (min.) @ Vdd / 2* **RISE & FALL TIME:** tr < 7ns tf < 7ns * > 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) Reflow soldering 260 ℃ / 10s max. PROCESSING:

(see packaging info)

MISCELLANEOUS

Customer's specification on request

Note 1: Operating Temperature Range

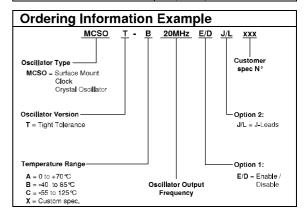
MCSOT-A: 0 to +70 ℃ MCSOT-B: -40 to +85 ℃ -55 to +125 ℃ MCSOT-C:

Option 1: Enable / Disable (on request) See application circuit on page 2 for details Pin 3 (Fout):: Open Clock Н Clock High Z Not available for f < 500kHz

Option 2: J / Leads (on request)

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

Marking Example							
Micro Crystal		Micro Crystal					
MCSOT-B	E/D	Type	Option 1				
20.000 MHz	09.40	Type Frequency	Date Code				
0		O (PIN 1)					



STANDARD FREQUENCIES [MHz]								
10.0000	10.1500	10.2300	10.2400	11.0592	12.0000			
12.2880	12.8000	13.0000	<i>14.7456</i>	16.0000	16.38 4 0			
18.4320	19.2000	19.6608	20.0000		& sub multiple			

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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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