

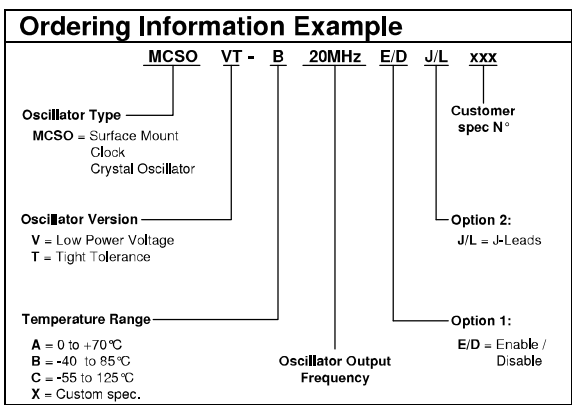
<b>FREQUENCY STABILITY</b>	
OVER:	
OPERATING TEMP. RANGE:	See note 1
OVERALL STABILITY:	$< \pm 50\text{ppm}^*$
INCLUDING:	
•	OVER OPERATING TEMPERATURE RANGE
•	ADJUSTMENT @ 25°C
•	LONG TERM AGING (1 YEARS)
•	STABILITY OVER SUPPLY VOLTAGE $\pm 5\%$
•	STABILITY OVER LOAD (MIN. TO MAX.)
<b>POWER SUPPLY</b>	
SUPPLY VOLTAGE:	$V_{dd} = 3.3V \pm 5\%^*$
INPUT CURRENT:	$< 10\text{mA}^*$
<b>OUTPUT</b>	
OUTPUT SIGNAL:	HC-MOS compatible *
SYMMETRY:	40 / 60% (min.) @ $V_{dd} / 2^*$
RISE & FALL TIME:	$t_r < 7\text{ns}$ $t_f < 7\text{ns}^*$
LEVEL "0" & "1":	$< 0.4V$ $> V_{dd} - 0.5V$
START-UP TIME:	$< 5\text{ms}$
FAN OUT (LOAD):	10 TTL / LS *
<b>ENVIRONMENT</b>	
OPERABLE TEMP. RANGE:	-55 to +125°C
STORAGE TEMP. RANGE:	-65 to +125°C
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°C / 10s max. (see packaging info)
<b>MISCELLANEOUS</b>	
* Customer's specification on request	

<b>Note 1: Operating Temperature Range</b>	
MCSOVT-A:	0 to +70 °C
MCSOVT-B:	-40 to +85 °C
MCSOVT-C:	-55 to +125 °C

<b>Option 1: Enable / Disable (on request)</b>	
See application circuit on page 2 for details	
<b>Pin 1:</b>	<b>Pin 3 (Foot):</b>
Open	Clock
H	Clock
L	High Z
Not available for $f < 500\text{kHz}$	

<b>Option 2: J / Leads (on request)</b>	
With tinned J / Leads pins	
Height: 3.8mm included J / Leads	

<b>Marking Example</b>			
<b>Micro Crystal</b>		<b>Micro Crystal</b>	
MCSOVT-B	E/D	Type	Option 1
20,000 MHz	09,40	Frequency	Date Code
O		O (PIN 1)	



<b>STANDARD FREQUENCIES [MHz]</b>					
10.0000	10.1500	10.2300	10.2400	11.0592	12.0000
12.2880	12.8000	13.0000	14.7456	16.0000	16.3840
18.4320	19.2000	19.6608	20.0000		& sub multiple

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.