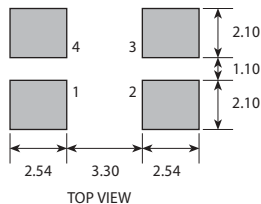
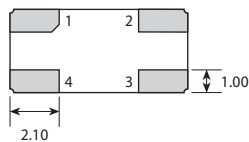






PAD	CONNECTION
1	Not connected or Enable/Disable
2	Ground
3	Output
4	Supply



Scale 3:1

## Features

-  **Military temperature range option**
-  **Excellent shock & vibration resistance**
-  **Enable / disable tristate option (> 500kHz)**
-  **Wide frequency range available**

## Standard Frequencies

Frequencies in MHz				
10.0000*	19.2000*	52.0000	76.8000	108.0000
10.1500*	19.6608*	55.2960	78.0000	110.5920
10.2300*	20.0000*	58.9824	80.0000	117.9640
10.2400*	40.0000	60.0000	81.2000	120.0000
11.0592*	40.6000	60.9000	81.8400	125.0000
12.0000*	40.9600	61.3800	81.9200	128.0000
12.2880*	44.2368	61.4400	88.4736	131.0720
12.8000*	48.0000	64.0000	90.0000	132.7104
13.0000*	49.1520	65.0000	96.0000	144.0000
14.7456*	50.0000	65.5360	98.3040	150.0000
16.0000*	50.7500	66.3520	100.0000	160.0000
16.3840*	51.1500	72.0000	102.4000	
18.4320*	51.2000	73.7280	104.0000	

\* Binary divisions of the above frequencies also available.

## Enable / Disable Function

Input (pad 1)	Output (pad 3)
Open	Enabled
'1' level	Enabled
'0' level	High Impedance

## Specifications

**MCSO1V: 400kHz ~ 20.0MHz**

**MCSO1HV: 20.0 ~ 160MHz**

Parameters	Product		Option Codes
	MCSO1V	MCSO1HV	
<b>Frequency range:</b> 400kHz ~ 20.0MHz 20.0 ~ 160MHz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Frequency stability*:</b> ±100ppm ±50ppm tighter stabilities on request	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	T specify
<b>Operating temperature range:</b> 0 to +70°C -40 to +85°C -55 to +125°C	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	A B C
<b>Operable temperature range:</b> -55 to +125°C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Storage temperature range:</b> -65 to +125°C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Supply voltage (V<sub>DD</sub>):</b> +3.3V (±10%)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Supply current (max):</b> 10mA 30mA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Driving ability:</b> CMOS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Logic levels:</b> '0' level = +0.4V max '1' level = 90%V <sub>DD</sub> min	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
<b>Start up time:</b> 5ms max	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Waveform symmetry:</b> 40:60 max @ 50%V <sub>DD</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Rise / fall times:</b> 7ns max 3ns max	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Enable / disable function:</b> None (pad 1 NC) Tristate* (control via pad 1) * not available under 500kHz	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	E
<b>Shock resistance:</b> 5,000G, 0.3ms, ½ sine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Vibration resistance:</b> 10G rms 10.0 ~ 2,000Hz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Soldering condition:</b> 260°C, 10 sec max	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Standard.  Optional - Please specify required code(s) when ordering

\* Frequency stability is inclusive of calibration @ 25°C, operating temperature range, supply voltage change, load change and ageing over 10 years.

## Ordering Information

Product name + option codes (if any) + frequency

eg: **MCSO1V/TBE 16.0MHz** ±50ppm -40 to +85°C Enable / disable

**MCSO1HV/C 81.840MHz** ±100ppm -55to +125°C

Option code X (eg MCSO1V/X) denotes a custom specification.

♦ Packed in trays (91pcs/tray).