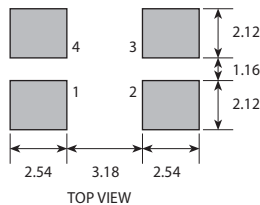
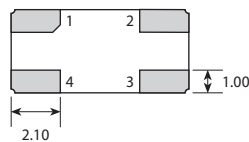


PAD	CONNECTION
1	Not connected or Enable/Disable
2	Ground
3	Output
4	Supply



Scale 3:1

## Features

- ▶ **Low jitter**
- ▶ **Military temperature range option**
- ▶ **Excellent shock & vibration resistance**
- ▶ **Enable / disable tristate option**

## Enable / Disable Function

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

## Specifications

Parameters	Product	Option Codes
	MCSO1F	
Frequency range:	40.0 ~ 160MHz	■
Frequency stability*:	±100ppm ±50ppm tighter stabilities on request	■ □ □ T specify
Operating temperature range:	0 to +70°C -40 to +85°C -55 to +125°C	■ □ □ A B C
Operable temperature range:	-55 to +125°C	■
Storage temperature range:	-65 to +125°C	■
Supply voltage ( $V_{DD}$ ):	+5.0V (±10%)	■
Supply current (max):	50mA	■
Driving ability:	CMOS	■
Logic levels:	'0' level = +0.4V max '1' level = $V_{DD}$ -0.5V min	■ ■
Start up time:	5ms max	■
Waveform symmetry:	40:60 max @ 50% $V_{DD}$	■
Jitter:	1ps max	■
Rise / fall times:	3ns max	■
Enable / disable function:	None (pad 1 NC) Tristate (control via pad 1)	■ □ E
Shock resistance:	5,000G, 0.3ms, ½ sine	■
Vibration resistance:	10G rms 10.0 ~ 2,000Hz	■
Soldering condition:	260°C, 10 sec max	■

■ 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: **MCSO1F/A 80.0MHz** ±100ppm 0 to +70°C  
**MCSO1F/TBE 120MHz** ±50ppm -40 to +85°C Enable / disable  
 Option code X (eg MCSO1F/X) denotes a custom specification.

◆ Packed in trays (91pcs/tray).