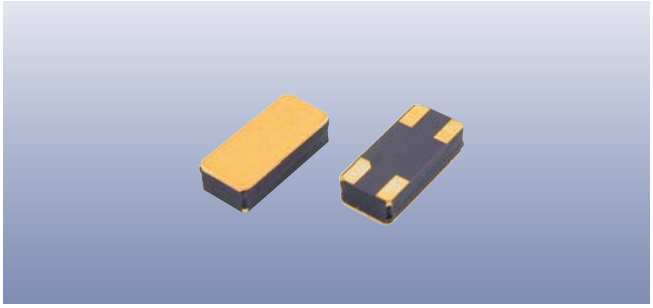
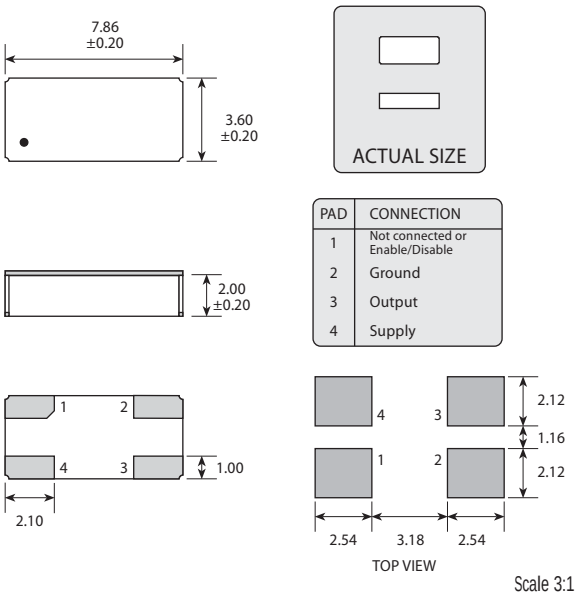
3.3V CMOS Oscillator Low Jitter

MCSO1FV





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	Enabled
'1' level	Enabled
'0' level	High Impedance

Specifications

Parameters	***Product*** ***MCSO1FV***	***Option Codes***
Frequency range: 40.0 ~ 160MHz	■	
Frequency stability*: ±100ppm	■	
±50ppm	□	T
tighter stabilities on request	□	specify
Operating temperature range:		
0 to +70°C	■	A
-40 to +85°C	□	B
-55 to +125°C	□	C
Operable temperature range: -55 to +125°C	■	
Storage temperature range: -65 to +125°C	■	
Supply voltage (V_{DD}): +3.3V (±5%)	■	
Supply current (max): 30mA	■	
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: ***MCSO1FV/A 80.0MHz*** ±100ppm 0 to +70°C

MCSO1FV/TBE 120MHz ±50ppm -40 to +85°C Enable / disable

Option code X (eg MCSO1FV/X) denotes a custom specification.

- Packed in trays (91pcs/tray).

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