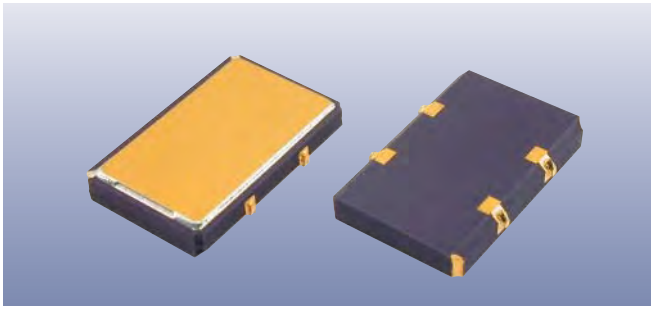
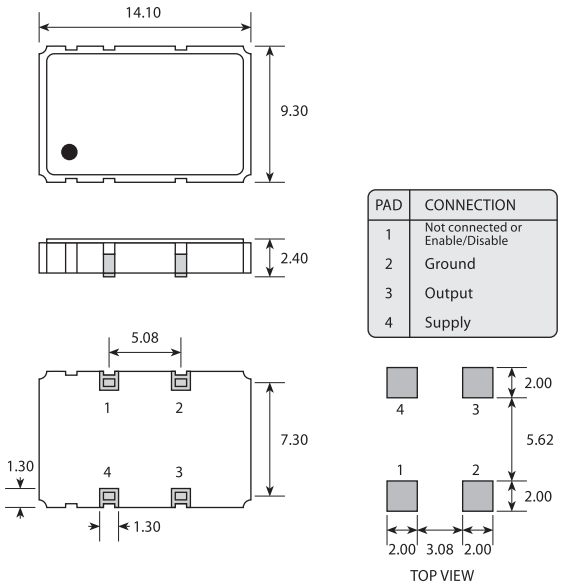
5V CMOS Oscillator -55+125°C

MCSO & MCSOH





Features

- Military temperature range -55+125°C option
- Excellent shock & vibration resistance
- Enable / disable tristate option (> 500kHz)
- J-leads option

Enable / Disable Function

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

Specifications

MCSO: 10.0kHz ~ 20.0MHz

MCSOH: 20.0 ~ 160MHz

Parameters	Product		Option Codes
	MCSO	MCSOH	
Frequency range:			
10.0kHz ~ 20.0MHz	■		
20.0 ~ 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}): +5.0V (±10%)	■	■	
Supply current (max): 15mA	■		
50mA		■	
Driving ability: CMOS / 10 LSTTL	■	■	
Logic levels: '0' level = +0.4V max	■	■	
'1' level = 90%V_{DD} min	■	■	
Start up time: 5ms max	■	■	
Waveform symmetry: 40:60 max @ 50%V_{DD}	■	■	
Rise / fall times: 7ns max	■		
3ns max		■	
Enable / disable function:			
None (pad 1 NC)	■	■	
Tristate* (control via pad 1)	□	□	E
* not available under 500kHz			
Terminations: Stand-offs	■	■	
J-leads (drawing on request)	□	□	J
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: **MCSO/BE 16.0MHz** ±100ppm -40 to +85°C Enable / disable

MCSOH/TAJ 80.0MHz ±50ppm 0 to +70°C, J-leads

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

- Available on T&R (1k pcs/reel) or trays (50pcs/tray).
- Refer to our website for T&R and soldering details.

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