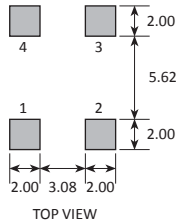


PAD	CONNECTION
1	Not connected or Enable/Disable
2	Ground
3	Output
4	Supply



TOP VIEW

Features

- ▶ Military temperature range -55+125°C option
- ▶ Excellent shock & vibration resistance
- ▶ Enable / disable tristate option (>500kHz)
- ▶ Wide frequency range available
- ▶ J-lead termination option

Enable / Disable Function

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

Supply current

Freq / Supply	2.5V	3.3V	5.0V
≤ 10MHz	2mA	4mA	6mA
10 ~ 20MHz	3mA	5mA	7mA
20 ~ 225MHz	25mA	30mA	40mA

Maximum values, no load.

Specifications

MCSO: 10.0kHz ~ 20.0MHz

MCSOH: 20.0 ~ 225MHz

Parameters	Product	Option Codes
	MCSO	
Frequency range: 10.0kHz ~ 225MHz	■	
Supply voltage (V _{DD}): +5.0V (±5%) +3.3V (±5%) +2.5V (±5%)	■ □ □	V W
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
Storage temperature range: -65 to +125°C	■	
Supply current:	See table	
Driving ability: CMOS	■	
Load: 3pF min, 47pF max	■	
Logic levels: '0' level = +0.4V max '1' level = V _{DD} -0.5V min	■ ■	
Start up time: 1ms typ, 5ms max	■	
Waveform symmetry: 40:60 max @ 50%V _{DD}	■	
Rise / fall times: 7ns max ≤20MHz 3ns max >20MHz	■ ■	
Enable / disable function: None (pad 1 NC) Tristate* (control via pad 1) * not available under 500kHz	■ □	E
Terminations: Gold flashed pads Ag/Cu/Zn plated J-leads	■ □	J
Shock resistance: 5,000G, 0.3ms, ½ sine	■	
Vibration resistance: 20G 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 + frequency

eg: **MCSO/CE 10.0MHz** 5V ±100ppm -55 to +125°C Enable / disable

For frequencies >20.0MHz add an 'H' to the product name

eg: **MCSOH/TB 32.0MHz** 2.5V ±50ppm -40 to +85°C no E/D

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

♦ Packed in trays (50cs/tray) or T&R 250 ~ 500pcs/reel