



Specifications

MCSOV: 10.0kHz ~ 20.0MHz

MCSOHV: 20.0 ~ 160MHz

| Parameters | Product | | Option Codes |
|-----------------------------------------------------------------------------------------------------------------------|-------------|-------------|--------------|
| | MCSOV | MCSOHV | |
| Frequency range: 10.0kHz ~ 20.0MHz 20.0 ~ 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}): +3.3V (±10%) | ■ | ■ | |
| Supply current (max): 10mA 30mA | ■ | ■ | |
| Driving ability: CMOS | ■ | ■ | |
| 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) * not available under 500kHz | ■ □ | ■ □ | E |
| 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.

Features

- ▶ **Military temperature range option**
- ▶ **Excellent shock & vibration resistance**
- ▶ **Enable / disable tristate option (> 500kHz)**
- ▶ **J-leads option**

Standard Frequencies

| Frequencies in MHz | | | | |
|--------------------|-----------|----------|-----------|-----------|
| 10.00000* | 19.20000* | 52.00000 | 76.80000 | 108.00000 |
| 10.15000* | 19.66080* | 55.29600 | 78.00000 | 110.59200 |
| 10.23000* | 20.00000* | 58.98240 | 80.00000 | 117.96400 |
| 10.24000* | 40.00000 | 60.00000 | 81.20000 | 120.00000 |
| 11.05920* | 40.60000 | 60.90000 | 81.84000 | 125.00000 |
| 12.00000* | 40.96000 | 61.38000 | 81.92000 | 128.00000 |
| 12.28800* | 44.23680 | 61.44000 | 88.47360 | 131.07200 |
| 12.80000* | 48.00000 | 64.00000 | 90.00000 | 132.71040 |
| 13.00000* | 49.15200 | 65.00000 | 96.00000 | 144.00000 |
| 14.74560* | 50.00000 | 65.53600 | 98.30400 | 150.00000 |
| 16.00000* | 50.75000 | 66.35520 | 100.00000 | 160.00000 |
| 16.38400* | 51.15000 | 72.00000 | 102.40000 | |
| 18.43200* | 51.20000 | 73.72800 | 104.00000 | |

* 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 |

Ordering Information

Product name + option codes (if any) + frequency
eg: **MCSOV/BE 16.0MHz** ±100ppm -40 to +85°C Enable / disable

MCSOHV/TAJ 120MHz ±50ppm 0 to +70°C, J-leads

Option code X (eg MCSOV/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.