



## Features

- ▶ Low jitter
- ▶ Military temperature range -55+125°C 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  | Option Codes |
|------------------------------------|--|--------------|
|                                    | MCSOFV   |              |
| Frequency range:                   | 40.0 ~ 160MHz  |              |
| Frequency stability*:              | ±100ppm<br>±50ppm<br>tighter stabilities on request            | T<br>specify |
| Operating temperature range:       | 0 to +70°C<br>-40 to +85°C<br>-55 to +125°C                    | A<br>B<br>C  |
| Operable temperature range:        | -55 to +125°C  |              |
| Storage temperature range:         | -65 to +125°C  |              |
| Supply voltage (V <sub>DD</sub> ): | +3.3V (±5%)  |              |
| Supply current (max):              | 30mA   |              |
| Driving ability:                   | CMOS   |              |
| Logic levels:                      | '0' level = +0.4V max<br>'1' level = V <sub>DD</sub> -0.5V min |              |
| Start up time:                     | 5ms max  |              |
| Waveform symmetry:                 | 40:60 max @ 50%V <sub>DD</sub>                                 |              |
| Jitter:                            | 1ps max  |              |
| Rise / fall times:                 | 3ns max  |              |
| Enable / disable function:         | None (pad 1 NC)<br>Tristate (control via pad 1)                | E            |
| Terminations:                      | Stand-offs<br>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: **MCSOFV/A 80.0MHz** ±100ppm 0 to +70°C

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

Option code X (eg MCSOFV/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.