



## Features

- ▶ **Low jitter**
- ▶ **Military temperature range option**
- ▶ **Excellent shock & vibration resistance**
- ▶ **Enable / disable tristate option**

## Standard Frequencies

Frequencies in MHz				
40.00000	52.00000	66.35520	90.00000	125.00000
40.60000	55.29600	72.00000	96.00000	128.00000
40.96000	58.98240	73.72800	98.30400	131.07200
44.23680	60.00000	76.80000	100.00000	132.71040
48.00000	60.90000	78.00000	102.40000	144.00000
49.15200	61.38000	80.00000	104.00000	150.00000
50.00000	61.44000	81.20000	108.00000	160.00000
50.75000	64.00000	81.84000	110.59200	
51.15000	65.00000	81.92000	117.94600	
51.20000	65.53600	88.47360	120.00000	

Other frequencies available. Please consult our sales office.

## Enable / Disable Function

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

## Specifications

Parameters	Product	Option Codes
	MCSOF	
<b>Frequency range:</b> 40.0 ~ 160MHz	■	
<b>Frequency stability*:</b> ±100ppm ±50ppm tighter stabilities on request	■ □ □	T specify
<b>Operating temperature range:</b> 0 to +70°C -40 to +85°C -55 to +125°C	■ □ □	A B C
<b>Operable temperature range:</b> -55 to +125°C	■	
<b>Storage temperature range:</b> -65 to +125°C	■	
<b>Supply voltage (V<sub>DD</sub>):</b> +5.0V (±10%)	■	
<b>Supply current (max):</b> 50mA	■	
<b>Driving ability:</b> CMOS	■	
<b>Logic levels:</b> '0' level = +0.4V max '1' level = V <sub>DD</sub> -0.5V min	■ ■	
<b>Start up time:</b> 5ms max	■	
<b>Waveform symmetry:</b> 40:60 max @ 50%V <sub>DD</sub>	■	
<b>Jitter:</b> 1ps max	■	
<b>Rise / fall times:</b> 3ns max	■	
<b>Enable / disable function:</b> None (pad 1 NC) Tristate (control via pad 1)	■ □	E
<b>Terminations:</b> Stand-offs J-leads (drawing on request)	■ □	J
<b>Shock resistance:</b> 5,000G, 0.3ms, ½ sine	■	
<b>Vibration resistance:</b> 10G rms 10.0 ~ 2,000Hz	■	
<b>Soldering condition:</b> 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: **MCSOF/A 80.0MHz** ±100ppm 0 to +70°C

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

Option code X (eg MCSOF/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.