



Features

- ▶ Military temperature range option
- ▶ Excellent shock & vibration resistance
- ▶ Enable / disable tristate option (>500kHz)
- ▶ Wide frequency range available

Standard Frequencies

Frequencies in MHz				
10.0000*	19.2000*	52.00000	76.80000	108.00000
10.1500*	19.66080*	55.29600	78.00000	110.59200
10.2300*	20.00000*	58.98240	80.00000	117.96400
10.2400*	40.00000	60.00000	81.20000	120.00000
11.05920*	40.60000	60.90000	81.84000	125.00000
12.0000*	40.96000	61.38000	81.92000	128.00000
12.2880*	44.23680	61.44000	88.47360	131.07200
12.8000*	48.00000	64.00000	90.00000	132.71040
13.0000*	49.15200	65.00000	96.00000	144.00000
14.74560*	50.00000	65.53600	98.30400	150.00000
16.0000*	50.75000	66.35520	100.00000	160.00000
16.3840*	51.15000	72.00000	102.40000	
18.4320*	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

Specifications

MCSO1: 400kHz ~ 20.0MHz

MCSO1H: 20.0 ~ 160MHz

Parameters	Product		Option Codes
	MCSO1	MCSO1H	
Frequency range: 400kHz ~ 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}): +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) * not available under 500kHz	■ □	■ □	E
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: **MCSO1/TBE 16.0MHz** ±50ppm -40 to +85°C Enable / disable

MCSO1H/C 90.0MHz ±100ppm -55 to +125°C

Option code X (eg MCSO1/X) denotes a custom specification.

♦ Packed in trays (50pcs/tray).