MCSO2HV

3.3V CMOS Oscillator with -55+125°C Temperature Range

- Military temperature range -55+125°C option
- Excellent shock & vibration resistance
- Enable / disable tristate option (>500kHz)
- Wide frequency range available
- Optional tinned pads (Ag/Cu/Zn)

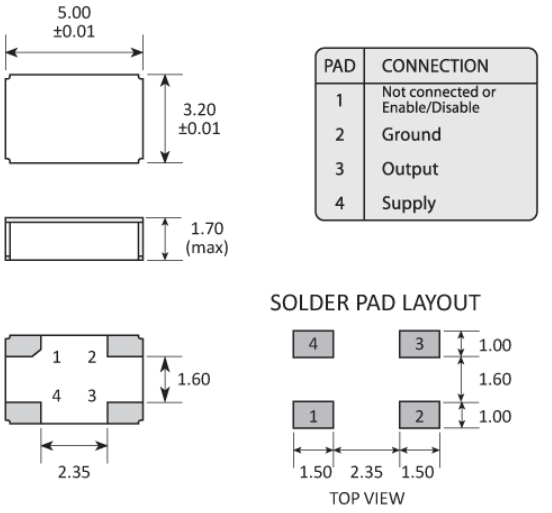
CONFIGURABLE OPTIONS

Parameter	Option Code
Frequency	
Frequency stability * see note below	
Any	
±100ppm	
±50ppm	T
Operating temperature range	
Any	
0 to +70°C	A
-40 to +85°C	B
-55 to +125°C	C
Enable / disable function	
Any	
None (pad 1 NC)	
Active (control via pad 1)	E
Terminations	
Any	
Gold plated pads	
Tinned Ag/Cu/Zn	T

SPECIFICATIONS

Frequency range	20.0 ~ 225MHz
Dimensions	5.0 x 3.2 x 1.7mm
Supply voltage (V_{DD})	+3.3V (±5%)
Storage temperature range	-65 to +125°C
Supply current	30mA max
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	5ms max
Waveform symmetry	40:60 max @ 50%V_{DD}
Rise / fall time	3ns max (15pF, 10~90%V_{P-P})
Shock resistance	5,000g, 0.3ms ½-sine
Vibration resistance	50g rms 10.0 ~ 2,000Hz
Soldering condition	260°C, 10 sec max

PACKAGE DRAWING



A 47nF ceramic capacitor must be connected between GND and VDD

Dimensions in mm

ORDERING INFORMATION

To request a quotation for the MCSO2HV please use the configurable options form to choose the options you require and then submit your configured product to our team. Our expert advisers are always happy to help with your requirements and can be contacted on +44 1460 256 100 or at sales@golledge.com.

Following product selection you will be issued with a seven character Golledge part number. Your Golledge part number is the internationally accepted Golledge manufacturing part number (MPN) that should be used for all project documentation, including bills of materials (BoMs) and purchase orders.

If you have any queries regarding any of our documentation our dedicated sales team will be happy to help.

ENABLE / DISABLE FUNCTION

Input (pad 1)	Output (pad 3)
Open	Enabled
'1' level	Enabled
'0' level	No clock

Reaction time <1µs

HANDLING & STORAGE

Human Body Model (HBM) 1A (250V to <500V)

Moisture Sensitivity Level (MSL): 1 (or not applicable)

CONSTRUCTION

Ceramic base and lid

COMPLIANCE

Lead-free (< 0.1% by weight)

RoHS compliant with no exemptions. See our declaration

REACH compliant. See our statement

Free of conflict minerals. See our declaration

Free of Halogens. See our declaration

Free of Ozone-depleting substances. See our declaration