# MCS01ESH

# 5.0V CMOS Oscillator for Extreme Environments -55+210°C

- Extreme temperature ranges up to 210°C
- Optional tinned pads (Ag/Cu/Zn)

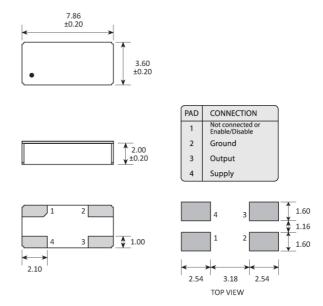


CONFIGURABLE OPTIONS	
Parameter	Option Code
Frequency	
Frequency stability	
* see note below	
Any	
±50ppm max over -10 to +150°C	R
±100ppm max over -10 to +175°C	S
±150ppm max over -10 to +210°C	Т
Enable / disable function	
Any	
None (pad 1 NC)	
Tristate (control via pad 1)	E
Terminations	
Any	
Gold plated pads	
Tinned pads* (Ag/Cu/Zn)	Т
* not available with stability option T	

#### **SPECIFICATIONS**

30.0 ~ 100MHz
7.86 x 3.60 x 2.20mm
+5.0V (±5%)
-65 to +125°C
30mA max
CMOS
3pF min, 47pF max
'0' level = +0.4V max
'1' level = V <sub>DD</sub> -0.5V min
5ms max
40:60 max @ 50%V <sub>DD</sub>
3ns max >30MHz
10,000g, 0.3ms, ½ sine
40g rms 10.0 ~ 2,000Hz
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 MCSO1ESH 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 <a href="mailto:sales@golledge.com">sales@golledge.com</a>.

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	High Impedance

#### **HANDLING & STORAGE**

#### CONSTRUCTION



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

Ceramic base and lid



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

## **COMPLIANCE**



Lead-free (< 0.1% by weight)



 $\label{lem:RoHS} \mbox{RoHS compliant with no exemptions.}$ 

declaration



REACH compliant.



Free of conflict minerals.



Free of Halogens.



Free of Ozone-depleting substances.

declaration