

MCSO2V

5V 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)



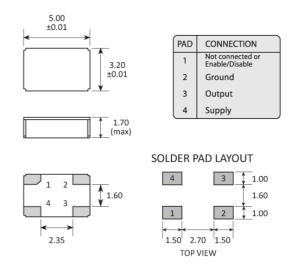
CONFIGURABLE OPTIONS	
Parameter	Option Code
Frequency	
Frequency stability	
* see note below	
Any	
±100ppm	
±50ppm	Т
Operating temperature range	
Any	
0 to +70°C	А
-40 to +85°C	В
-55 to +125°C	С
Enable / disable function	
Any	
None (pad 1 NC)	
Active* (control via pad 1)	E
* not available under 500kHz	
Terminations	
Any	
Gold plated pads	
Tinned Ag/Cu/Zn	Т



SPECIFICATIONS

Frequency range	10.0kHz ~ 20MHz
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	1mA max (@32.768kHz) 4mA max (≤10MHz) 5mA max (>10MHz)
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	7ns max (15pF, 20~80%V _{P-P}) 150ns max @ 32.768kHz
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 MCSO2V 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

CONSTRUCTION



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

Ceramic base and lid



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

MATERIAL COMPOSITION



Lead-free (< 0.1% by weight)



RoHS 2 compliant with no exemptions. See our

declaration



REACH compliant. See our statement



Au Ta Sn W Free of conflict minerals. See our declaration



Free of Halogens. See our declaration



Free of Ozone-depleting substances. See our

declaration



OTHER INFORMATION

About Golledge

We are the UK's leading supplier of frequency control products and are proud to serve the global electronics industry. Our philosophy is a focus firmly on your requirements by striving to meet and exceed your needs. We do this by ensuring the utmost quality and consistency in our products and services. If you have any queries about the Golledge service or any of our products please get in touch, we'd love to hear from you.

Come and visit

Give us a call

Email us

Eaglewood Park, ILMINSTER, Somerset, TA19 9DQ, England Tel: +44 1460 256 100 Fax: +44 1460 256 101 sales@golledge.com

Our Worldwide Distributors

Belgium & Luxembourg

Alcom Electronics NV/SA



Email Web Tel

info@alcom.be www.alcom.be +32 (0)3 458.30.33

China, Hong Kong - 中国 / 香港

Meiya China



Email Web

sales@meiyatech.com www.meiyatech.com +86 755 2823 1923

France

Equipments Scientifique



Email Web

comp@es-france.com www.es-france.com +33 1 47 95 99 89

Germany

MEV Elektronik Service GmbH



Web

info@mev-elektronik.com www.mev-elektronik.com +49 54 24 23 40-0

India

V5 Semiconductors



Email Web Tel

sales@v5semiconductors.com v5semiconductors.com +91-80-2661 0621

Israel

Phoenix Technologies Ltd



Email Web Tel

sales@phnx.co.il www.phnx.co.il +972 9 764 4800

Netherlands

Alcom Electronics BV



Email Web Tel

info@alcom.nl alcom.nl +31 (0)10 288.25.00

Norway

Link Nordic



bjorn.nyjordet@linknordic.com linknordic.com +47 93 22 68 90

Russia - Россия

EFO Ltd



Email Web Tel

elena@efo.ru www.golledge.ru +7(812)327-8654

Spain & Portugal

R.C. Microelectronica, S.A.



Email Web Tel

ventas@rcmicro.es www.rcmicro.es +34 93 260 21 66

Our customer feedback is testament to our quality; "Never had such good service as this from anyone in 35 years of being in the industry, this is impressive and has really helped us out of a corner to keep the design flowing" Andy (Senior Design Engineer), "As always your support is state of the art" Nicoleta (Material Management), "Legendary work - as usual it has to be said" John (Operations). To take advantage of our highly praised service get in touch with us today.