OV0100C7

Fully ceramic 100kHz SM

Oscillator

- Fully ceramic package
- Low power consumption
- Optional AEC-Q200 qualification
- High shock and vibration resistance

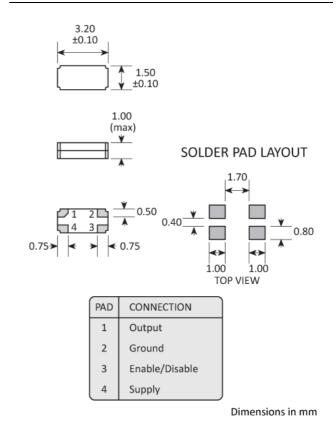


CONFIGURABLE OPTIONS	
Parameter	Option Code
Calibration tolerance	
±20ppm max	
Qualification	
Any	
Commercial	
AEC-Q200 (Automotive)	А

SPECIFICATIONS

Frequency	100kHz
Dimensions	3.2 x 1.5 x 1.0mm
Operating	-40 to +85°C
temperature range	
Turnover temperature	+18°C ±5°C
(T ₀)	
Frequency / temp	-0.035ppm/°C ² ±10%
coefficient	
Storage temperature	-55 to +125°C
range	
Supply voltage (V _{DD})	Operable from 1.2 ~ 5.5V
Supply current (backup	0.65µA typ, 0.85µA max
mode)	(V _{DD} 3.0V, output disabled)
Logic levels	'0' level = +0.4V max
	'1' level = V _{DD} -0.4V min
Waveform symmetry	40:60 max @ 50%V _{DD}
Driving ability	CMOS
Voltage coefficient	±1.5ppm/V max
Rise / fall time	100ns max
(1.5~5.5V)	
Start up time	150ms typ, 500ms max @ 25°C
Enable / disable	Control via pad 3
function	
Ageing	±3ppm max first year @ 25°C
Shock resistance	±5ppm, 5,000g, 0.3ms ½-sine
Vibration resistance	±5ppm, 20g rms 10.0 ~ 2,000Hz
Soldering condition	Reflow, 260°C, 20 sec max
Net mass	12.4mg

PACKAGE DRAWING



ORDERING INFORMATION

To request a quotation for the OV0100C7 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.

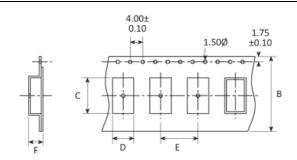
If you have any queries regarding any of our documentation our dedicated sales team will be happy to help.

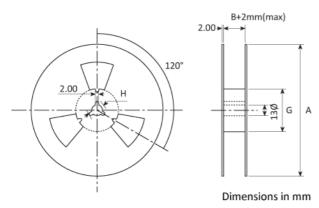
ENABLE / DISABLE FUNCTION

Input (pad 3)	Output (pad 1)
'1' level	Enabled
'0' level	Disabled

Note: Pad 3 should not be allowed to float

TAPE & REEL SPECIFICATION





A:178 / B:8 / C:3.5 / D:1.8 / E:4 / F:1.1 / G:61.5 / H:21

HANDLING & STORAGE



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

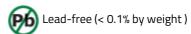


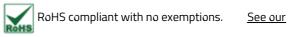
Moisture Sensitivity Level (MSL): 1 (or not applicable)

CONSTRUCTION

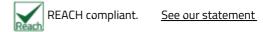
Full ceramic package

COMPLIANCE

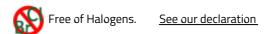


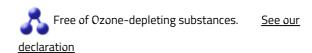


declaration









BLOCK DIAGRAM

