

GAO-3301

1.8~3.3V 32.768kHz Oscillator with

3225 Package

- Excellent temperature stability
- Low current consumption
- AT-cut resonator + dividing circuit
- Miniature ceramic package with metal lid
- Competitive pricing



CONFIGURABLE OPTIONS	
Parameter	Option Code
Frequency stability	
Any	
±25ppm	А
±50ppm	В
Operating temperature range	
Any	
-20 to +70°C	
-40 to +85°C	1

The GAO-3301 has no configurable options.

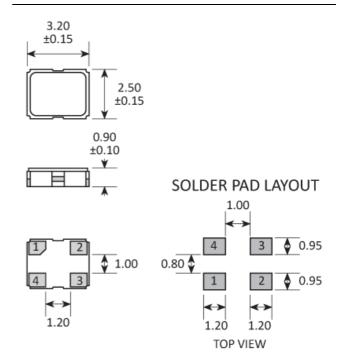
Please see the specifications table for more details or contact our team today if you have other specification requirements.



SPECIFICATIONS

Frequency	32.768kHz					
Dimensions	3.2 x 2.5 x 1.0mm					
Storage temperature	-55 to +125°C					
range						
Supply voltage (V _{DD})	Operable from +1.8 ~ +5.0V					
Supply current (@	0.108mA typ, 0.200mA max (1.8V)					
15pF)	0.117mA typ, 0.200mA max (3.3V)					
Driving ability	15pF CMOS					
Logic levels	'0' level = 10%V _{DD} max					
	'1' level = 90%V _{DD} min					
Waveform	45:55 @ 50%V _{DD}					
symmetry						
Rise / fall time	13ns typ 100ns max, 10 ~ 90% V_{DD}					
Start up time	10ms max					
Stand-by current	2μA typ, 10μA max					
Ageing	±5ppm/yr max @ 25°C					

PACKAGE DRAWING



PAD	CONNECTION
1	Enable/Disable
2	Ground
3	Output
4	Supply

Dimensions in mm



ORDERING INFORMATION

To request a quotation for the GAO-3301 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 (V _{IH} =70% V _{DD} min)	Enabled				
'0' level (V _{IL} =30% V _{DD} min)	High Impedance				

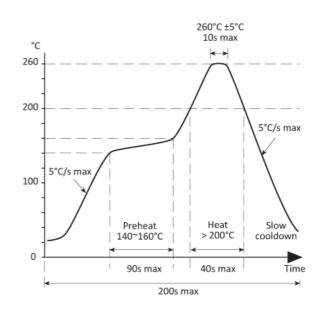
MARKING

FREQUENCY DC Marking type: Laser

DC = Date Code in YM, eg. "GF" = Jun 2017

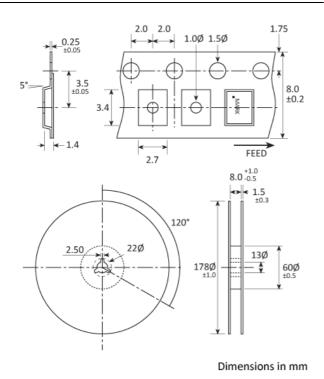
	Α	В	С	D	Ε	F	G	Н	J	K	L	М
Υ	1	2	3	4	5	6	7	8	9	0		
M	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

SOLDERING PROFILE





TAPE & REEL SPECIFICATION



HANDLING & STORAGE



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



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

CONSTRUCTION

Ceramic body with gold-plated pads Metal lid, seam sealed

COMPLIANCE



Lead-free (< 0.1% by weight)



RoHS compliant with no exemptions. See

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. <u>See our</u>

declaration