

Product Description

Description:	20.0MHz GXO-3201L/BI SM Oscillator
Product family:	GXO-3201
Category:	SM Oscillator
Order code:	MP01639

Features

- ▶ Low current consumption
- ▶ Enable / disable tristate function
- ▶ Miniature ceramic package with metal lid
- ▶ Competitive pricing

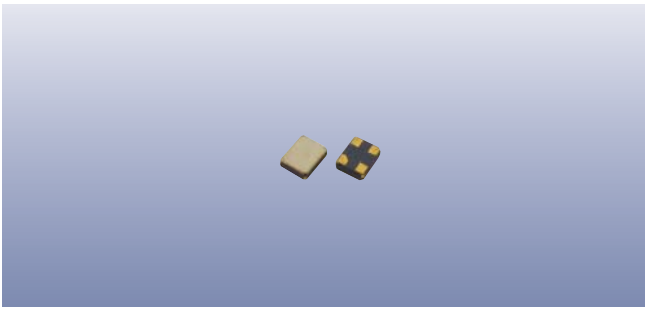
Additional Information

For further information regarding packaging, construction, material composition, soldering profile and environment, please refer to **GXO-3201 Product Information sheet**

For dimensions, refer to package drawing: **D0290-A**

Electrical Specifications

Parameter	Value	Notes
Nominal frequency:	20.0MHz	
Frequency stability:	±50ppm max	Frequency stability is inclusive of calibration @25°C, operating temperature range, supply voltage change, load change, shock & vibration.
Operating temperature range:	-40 to +85°C	
Storage temperature range:	-55 to +100°C	
Supply voltage (V _{DD}):	+2.5V ~ +3.3V	±5%
Supply current:	5.5mA max	GXO-3201L will operate within specification on any supply voltage from +2.5V to +3.3V. Supply current will vary with supply voltage. Figures shown are for +3.0V supply.
Rise/fall time:	10ns max	
Enable/disable times:	10ms/200ns	
Driving ability:	15pF CMOS	
Logic levels:	'0' level = 10%V _{DD} max '1' level = 90%V _{DD} min	
Waveform symmetry:	45:55%	@50% V _{DD}
Start-up time:	10ms max	
Ageing:	±5ppm max	Per year
Period jitter (RMS):	5ps max	
Phase jitter (RMS):	1ps max	12kHz ~ 20MHz



Construction

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

Composition



This product is lead-free, and is fully compliant with the RoHS 2 directive 2011/65/EU



Packaging & Handling

Production quantities supplied on T&R, 1k or 3k pcs per reel. Small quantities may be supplied on tape (no reel), or in bulk.



♦ Static sensitive product. Observe proper handling precautions

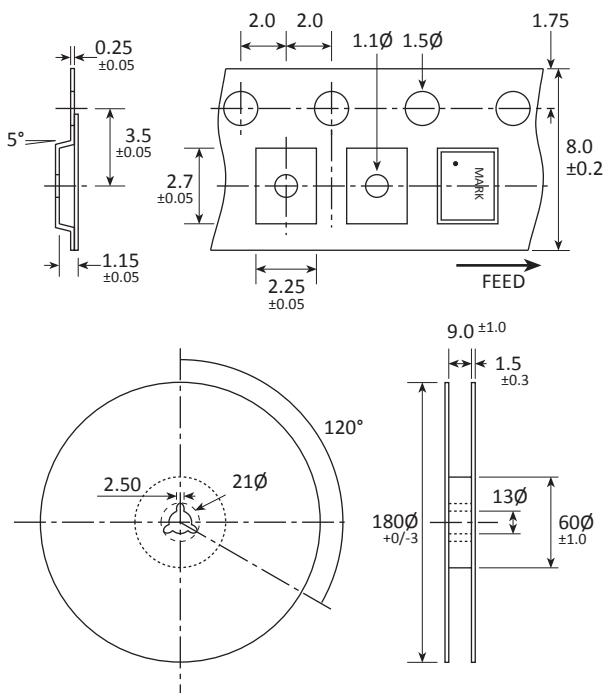
Marking

FREQUENCY	S	DC
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Marking type: Laser
DC = Date code in YM, eg "CE" = May 2013

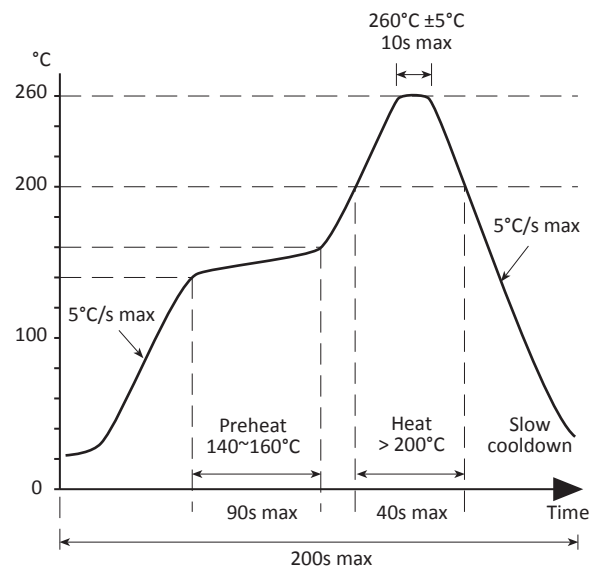
	A	B	C	D	E	F	G	H	J	K	L	M
Y	1	2	3	4	5	6	7	8	9	0		
M	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Tape & Reel Specification

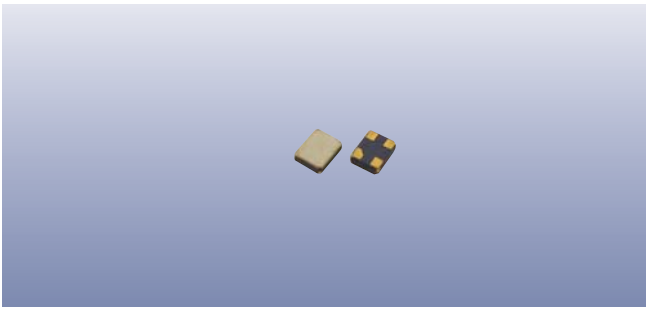


Not to scale. Dimensions in mm. Tolerances ±0.1mm unless otherwise stated.

Soldering Profile



Solder resistance: 260°C x 10 secs x 2.



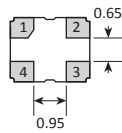
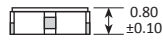
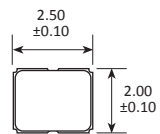
Product Family

GAO-3201, GXO-3201, GXO-3203

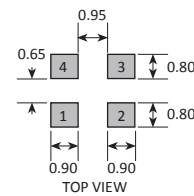
Construction

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

Dimensions (mm)



SOLDER PAD LAYOUT



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