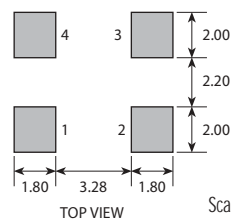


PAD	CONNECTION
1	Enable/Disable
2	Ground
3	Output
4	Supply



Features

- ▶ **Low voltage and low power consumption**
- ▶ **Ceramic package with metal lid**
- ▶ **Enable / disable tristate function**
- ▶ **Power saving function (J & K variants)**

Standard Frequencies

Frequencies in MHz			
1.84320	16.00000	30.00000	50.00000
2.00000	18.43200	32.00000	64.00000
3.68640	20.00000	33.86880	66.66600
4.00000	24.00000	36.86400	70.00000
5.00000	24.57600	40.00000	80.00000
8.00000	25.00000	44.23680	100.00000
10.00000	27.00000	44.73600	108.00000
12.00000	29.48920	48.00000	125.00000
14.31818	29.49120	49.15200	

Other frequencies available. Please consult our sales office.

Enable / Disable Function

Input (pad 1)	Output (pad 3)
Open	Enabled
'1' level	Enabled
'0' level	High Impedance

* J & K variants do not operate if pad 1 is open circuit.

Specifications

GXO-U109G: 1.8V supply, E/D

GXO-U109J: 2.5V supply, E/D with power saving

GXO-U109K: 2.8V supply, E/D with power saving

Parameters	Variant			Option Codes
	G	J	K	
Frequency range: 1.8 ~ 160MHz	■	■	■	
Frequency stability: ±100ppm ±50ppm ±25ppm	■ □ □	■ □ □	■ □ □	B A
Operating temperature range: -10 to +70°C -40 to +85°C	■ □	■ □	■ □	I
Storage temperature range: -55 to +125°C	■	■	■	
Supply voltage (V_{DD}): +1.8V (±5%) +2.5V (±5%) +2.8V (±5%)	■	■	■	
Supply current (mA max): 1.8 ~ 32.0MHz 32.0 ~ 80.0MHz 80.0 ~ 125MHz 125 ~ 160MHz	7 15 25 35	10 18 28 38	12 20 30 40	
Logic levels: '0' level = 20%V _{DD} max '1' level = 80%V _{DD} min '0' level = 10%V _{DD} max '1' level = 90%V _{DD} min	■ ■	■ ■	■ ■	
Start up time: 10ms max	■	■	■	
Waveform symmetry: 40:60 max 45:55 max (1.8 ~ 50.0MHz) 40:60 max (>50.0MHz)	■	■	■	
Driving ability: 15pF HCMOS	■	■	■	
Rise / fall time: 3.5ns max 5ns max	■	■	■	
Enable / disable function: Tristate (control via pad 1) 100ns / 100ns 10ms / 150ns	■ ■	■ ■	■ ■	
Stand-by current (power-saving): 10µA		■	■	

■ Standard. □ Optional - Please specify required code(s) when ordering

Ordering Information

Product name + variant + option codes (if any) + frequency

eg: **GXO-U109G 40.0MHz** 1.8V, ±100ppm -10+70°C

GXO-U109J/BI 32.0MHz 2.5V, ±50ppm -40+85°C

Option code X (eg GXO-U109K/X) denotes a custom spec.

- ◆ Available on T&R - 2k pcs per reel.
- ◆ Refer to our website for T&R and soldering details.