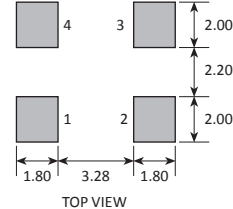


PAD	CONNECTION
1	Enable/Disable
2	Ground
3	Output
4	Supply



TOP VIEW

Features

- ▶ Low voltage and low power consumption
- ▶ Power saving function
- ▶ Ceramic package with metal lid
- ▶ Enable / disable tristate function

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 with power saving

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: 5ms max (1.8 ~ 32.0MHz) 10ms max (>32.0MHz)	■ ■	■ ■	■ ■	
Waveform symmetry: 40:60 max 45:55 max (1.8 ~ 50.0MHz) 40:60 max (>50.0MHz)	■	■	■	
Driving ability: 15pF HCMOS	■	■	■	
Rise / fall time: 5.0ns max (1.8 ~ 80.0MHz) 4.0ns max (80.0 ~ 125MHz) 3.0ns max (125 ~ 160MHz)	■ ■ ■	■ ■ ■	■ ■ ■	
Enable / disable function: 5ms / 250ns (1.8 ~ 32.0MHz) 10ms / 250ns (>32.0MHz) 5ms / 150ns (1.8 ~ 32.0MHz) 10ms / 150ns (>32.0MHz)	■ ■	■ ■	■ ■	
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.