




PIN CONNECTION				
PIN	OPTIONS N & I	OPTION V	OPTION P	OPTION R
1	Not connected	Freq adjustment	Freq adjustment	Variable resistor
2	Not connected	Not connected	Ref voltage out	Not connected
3	Supply	Supply	Supply	Supply
4	Output	Output	Output	Output
5	Ground	Ground	Ground	Ground

Scale 1:1

Features

-  **Wide frequency range**
-  **Standard European IEC CO-08 pin-out**
-  **Custom options available**

Frequency Stability

The table shows option codes for the available combinations of frequency stability (in ppm) and temperature range. Some combinations may not be available at certain frequencies.

	±3.0	±2.5	±2.0	±1.5	±1.0	±0.5
-30 to +85°C	KW	JW	HW	-	-	-
-20 to +70°C	KN	JN	HN	GN	FN	-
-10 to +60°C	KC	JC	HC	GC	FC	EC
0 to +50°C	KR	JR	HR	GR	FR	ER

Specifications

GTXO-410H: HCMOS output

GTXO-410S: Sinewave output

GTXO-410T: TTL output

Parameters	Variant			Option Codes
	H	S	T	
Frequency range: 8.0 ~ 33.0MHz 500kHz ~ 120MHz	■	■	■	
Output drive: 15pF HCMOS / 2 TTL Sinewave (+7dB min into 50Ω) Other	■	■	■	specify
Logic levels: '0' = +0.5V max, '1' = +4.5V min '0' = +0.4V max, '1' = +2.4V min	■		■	
Rise / fall time: 10ns max	■		■	
Waveform symmetry: 40:60 max @ 2.5V 40:60 max @ 1.4V	■		■	
Frequency stability: ±3.0ppm ±2.5ppm ±2.0ppm ±1.5ppm ±1.0ppm ±0.5ppm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	K J H G F E
Temperature range: 0 to +50°C -10 to +60°C -20 to +70°C -30 to +85°C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	R C N W
Storage temperature range: -40 to +85°C	■	■	■	
Frequency vs supply voltage: ±0.1ppm / V max	■	■	■	
Ageing: ±1.0ppm max per year	■	■	■	
Supply voltage (V_{DD}): +5.0V (±5%) +5.0V ~ 13V (±5%) +12V (±5%) +9.0V ~ 13V (±5%)	■ <input type="checkbox"/>	 ■ <input type="checkbox"/>	■ <input type="checkbox"/>	specify specify
Supply current: 20mA max (<20.0MHz) 30mA max (20.0~50.0MHz) 50mA max (>50.0MHz)	■ ■ ■	■ ■ ■	■ ■ ■	
Frequency adjustment: None (preset to ±1.0ppm @ 25°C) ±3ppm min by internal trimmer ±5ppm, 2.5V ±2.0V ±5ppm by external potentiometer ±5ppm by variable resistor	<input type="checkbox"/> <input type="checkbox"/> ■ <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> ■ <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> ■ <input type="checkbox"/>	N I V P R

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

Ordering Information

Product name + variant + option codes + frequency

eg: **GTXO-410H/JCN 44.7360MHz ±2.5ppm -10+60°C, no adjust**

GTXO-410S/FRI 20.0MHz ±1.0ppm 0+50°C, internal trimmer

Option code X (eg GTXO-410H/X) denotes a custom spec.