TQDILVH

VCXO

Typical Applications

Base Stations
Test Equipment
Switching

Features

AT-Cut Crystal
Dual-inline oscillator
Surface Mount Option

Frequency range **30 MHz – 100 MHz**

Standard frequencies 32.768; 34.368; 44.736; 51.84; 61.44; 68.736 MHz

Frequency stabilities

Parameter	Frequency stability	Operating temp range
vs. operating temperature range	< ± 10ppm	0 ... +70°C
Parameter	**Value**	**Condition**
vs. supply voltage change	< ± 2 ppm	Vs ± 10 %
vs. load change	< ± 1 ppm	Load ± 10 %
vs. aging / 1ST year	± 2 ppm	

Frequency tuning

Parameter	Value	Condition
Electrical frequency control (EFC)	> ± 100 ppm	
Voltage range (V_C)	0.5 to 4.5V	
Pulling slope	positive	

RF output

Parameter	Value	Condition
Signal	ACMOS	
Load	15pF ± 10%	
Rise and Fall time	< 5 ns	@ 15pF & 10 to 90%
Duty cycle	40/60 %	@V_S/2

Supply voltage

Parameter	Value	Condition
Supply voltage (Vs)	5.0 V ± 5 %	
Current consumption	< 40 mA	<60MHz
	< 50 mA	≥60MHz

Additional parameters

Parameter	Value	Condition	
Phase Noise	< -70 dBc/Hz	10 Hz	Note 1
	< -90 dBc/Hz	100 Hz	
	< -85 dBc/Hz	1 kHz	
	< -80 dBc/Hz	10 KHz	
	< -90 dBc/Hz	100 kHz	
Weight	< 2 g		
Operable temperature range	- 20 ... +80°C		
Storage temperature range	- 30 ... +90°C		
Processing & Packing	handling&processing note		

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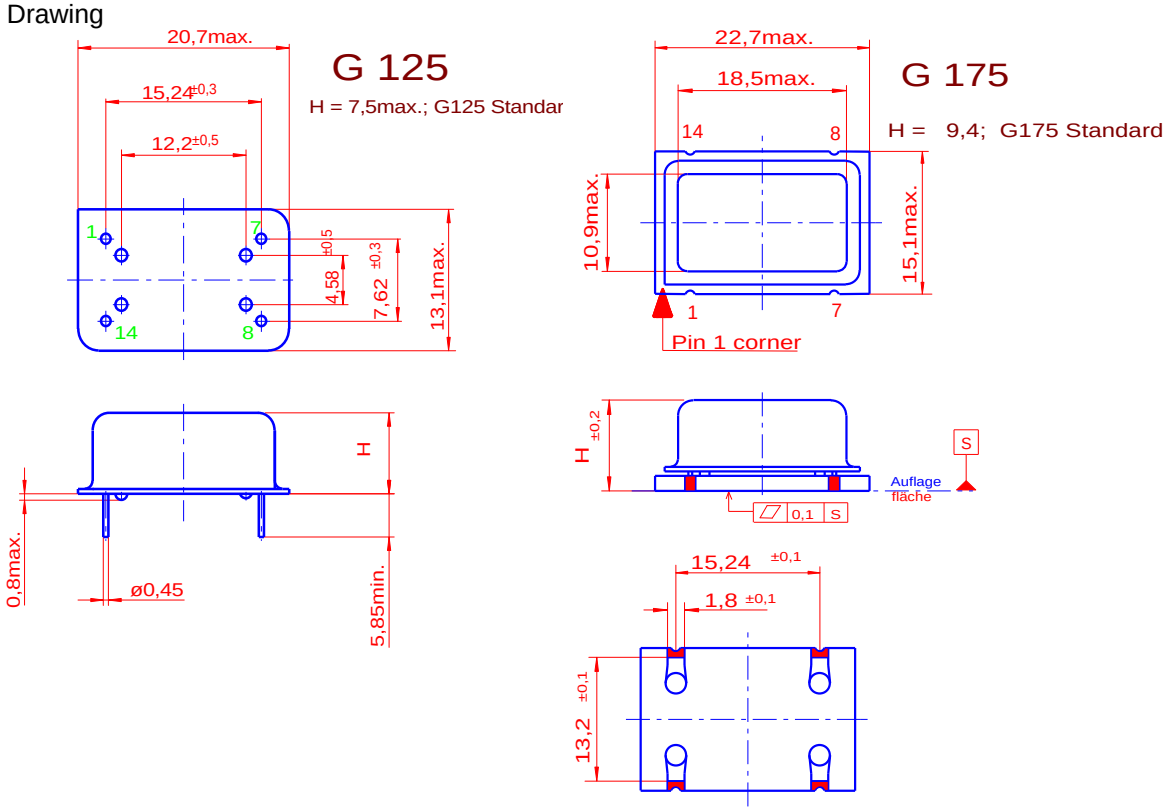
Enclosure

Type	Option I	Case	Condition
	Blank	G125	
	A	G175	

Drawing



all units in mm

Pin Connections

Pin	1	Control Voltage (Vc)
Pin	7	GND, Case
Pin	8	RF-Output
Pin	14	Supply Voltage (Vs)

	Ordering Code	Option I	
	Model	**Case**	**Frequency**
Example:	TQDILVH	A	32M768
Order:	TQDILVH		

Note

1 Typical values @ 32.768 MHz

Unless otherwise stated all values are valid after warm-up time and refer to typical conditions for supply voltage, frequency control voltage, load, temperature (25°C)
Subject to technical modification; Not all options and codes are available at all Frequencies

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