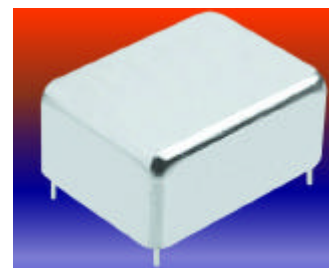


Typical Applications

Base Station
Synthesizer
Switching

Features

AT-Cut Crystal



Frequency range

4 MHz – 26 MHz

Standard frequencies

4.096; 10; 12 MHz

Frequency stabilities

Parameter	Frequency stability	Operating temp range
vs. operating temperature range	< ± 100 ppb	-20 ... 60°C
Parameter	Value	Condition
vs. supply voltage change	< ± 20 ppb	static
vs. load change	< ± 20 ppb	static
vs. aging /1. Year	< ± 500 ppb	after 30 days

Frequency tuning

Parameter	Value	Condition
Electrical Frequency Control (EFC)	> ± 3 ppm	External Trimmer 20 kOhm

RF output

Parameter	Option	Value	Condition
Signal	C	CMOS	
Load		15 pF ± 5 %	
Duty Cycle		40/60%	@ Vs/2

Supply Voltage

Parameter	Value	Condition
Supply voltage (Vs)	12 V ± 10 %	
Power consumption steady state	< 1.0 W	@ 25 °C
During warm up	< 2.2 W	

Additional parameters

Parameter	Value	Condition
Phase Noise	< -60 dBc/Hz < -90 dBc/Hz < -120 dBc/Hz < -140 dBc/Hz < -140 dBc/Hz < -140 dBc/Hz	1 Hz 10 Hz 100 Hz 1 kHz 10 kHz 100 kHz Note 1
Warm-up time	< 2.5 min	@25°C
Weight	< 35 g	
Operable temperature range	-40 ... +90°C	
Storage temperature range	-55 ... +105°C	
Processing & Packing	handling&processing note	

Enclosure

Type
Drawing

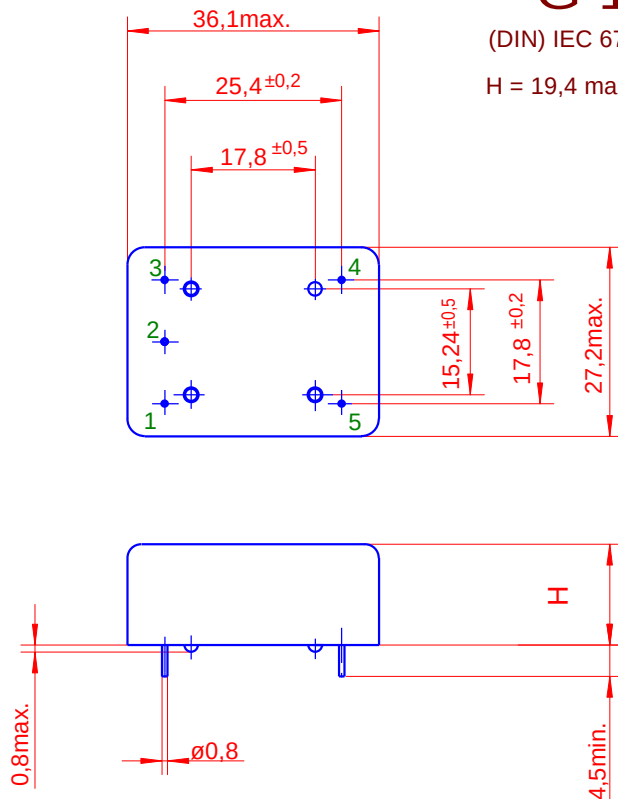
G107B

Note 2

G 107

(DIN) IEC 679-3 CO 08

H = 19,4 max.; G107 B



Pin Connections

Pin 1	Trimmer, EFC
Pin 2	Trimmer, Reference voltage
Pin 3	Supply voltage (Vs)
Pin 4	RF Output
Pin 5	GND, Case

Ordering Code	Option	Frequency
Model	Output signal	
OCO100	C	10M000000
Order:	OCO100	

Example:
Order:

Note

- Typical values @ 10 MHz
- We reserve the right to replace the enclosure G107 by the resistance-welded version G157
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