

**Nominal frequency (f0)**

**10 MHz**

**Frequency stabilities**

Parameter	Frequency stability	Operating temp. range
vs. operating temp. range (df/f@25 °C)	-100 to 100 ppb	-20 ... 70 °C
Parameter	Value	Condition
initial tolerance (df/f0)	-500 to 500 ppb	@Vc = 2.5 V; 25 °C
vs. supply voltage change (df/f)	-20 to 20 ppb	static; 5 V ±5 %
vs. load change (df/f)	-20 to 20 ppb	static; Load ± 10 %
vs. aging / daily (df/f)	<± 10 ppb	after 30 days ; @ 25 °C
vs. aging / month (df/f)	<± 200 ppb	after 30 days ; @ 25 °C
vs. aging / year (df/f)	<± 500 ppb	after 30 days ; @ 25 °C
vs. aging / 10 years (df/f)	<± 3 ppm	after 30 days ; @ 25 °C

**Frequency tuning**

Parameter	Value	Condition
Electrical frequency control (EFC) (df/f0)	-12 to -5 ppm 5 to 12 ppm	ext. tuning voltage @ 0.5 V ext. tuning voltage @ 4.5 V
Linearity	< 10 %	

**RF output**

Parameter	Value	Condition
Signal	HCMOS	
Load	15 pF ±10 %	
Fan out	3	
Duty cycle	45 / 55 %	@ 2.5 V
V Low	x < 0.5 V	
V High	x > 4.5 V	

**Supply voltage**

Parameter	Value	Condition
Supply voltage (Vs)	5 V ± 5 %	
Current consumption steady state	< 200 mA	@ Vsnom & 25 °C
Current consumption during warm up	< 500 mA	@ Vs

**Additional Parameters**

Parameter	Value	Condition
Phase Noise	< -85 dBc/Hz	1 Hz
	< -115 dBc/Hz	10 Hz
	< -140 dBc/Hz	100 Hz
	< -145 dBc/Hz	1 kHz
	< -150 dBc/Hz	10 kHz
	< -150 dBc/Hz	100 kHz
Warm-up time	< 2 min	@ 25 °C to final frequency
Additional information warm up time @ 25°C to ±100ppb to final frequency (1 hour reading)		
Processing & Packing	handling&processing note	

**Additional environmental conditions**

Tensile strength of leads DIN IEC 68-2-21, Test Ua 1
Flexibility of leads DIN IEC 68-2-21, Test Ub
Sealing test A hermetisch dicht (hermetically sealed)
Solderability DIN IEC 68-2-20, Test Ta Method 1 100% RoHS compliant

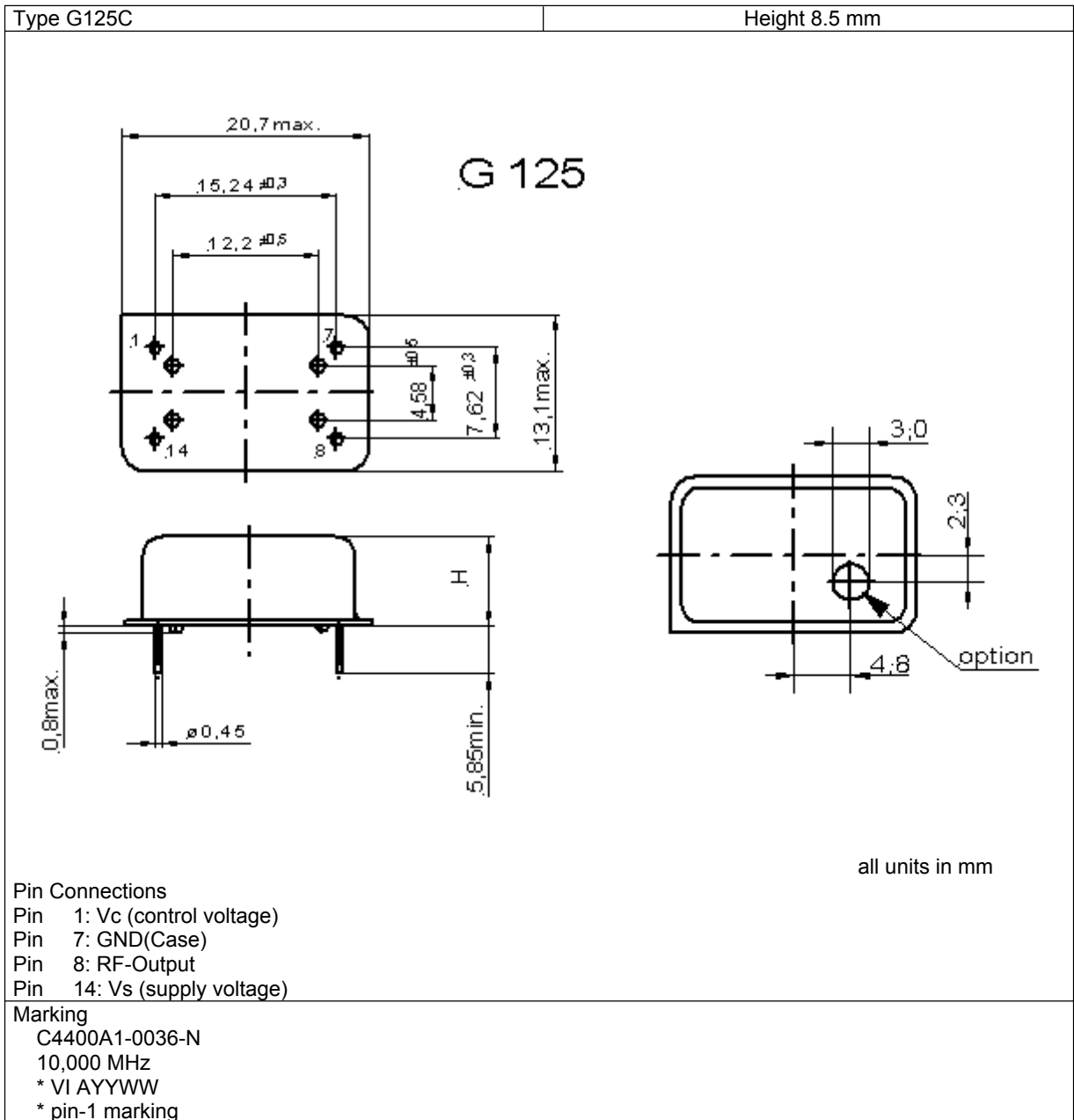
**Additional environmental conditions**

Solvent resistance DIN IEC 68-2-45, Test xA washable device
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**Absolute Maximum Ratings**

Parameter	Min	Typ	Max	Units	Condition
Operable temperature range	-40		85	°C	
Storage temperature range	-45		105	°C	

**Enclosure**



**Standard shipping method**

25 units per tube
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Notes:

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.