

Nominal frequency (f0)

61.44 MHz

Frequency stabilities

Parameter	Frequency stability	Operating temp. range
Holdover 24 h	± 30 ppb	temp. range, supply volt. c

Frequency tuning

Parameter	Value	Condition
Electrical frequency control (EFC) (df/f0)	-2.5 to -1.5 ppm 1.5 to 2.5 ppm	ext. tuning voltage @ 0 V ext. tuning voltage @ 5 V
Linearity	< 5 %	
slope	0.4 to 1.3 ppm/V	
Frequency control input impedance	> 200 kOhm	

RF output

Parameter	Value	Condition
Signal	HCMOS comp.	
Load	10000 Ohm ±10 % 30 pF -60 % +5 %	
Fan out	6	
Rise Time	< 5 ns	@ 10 to 90 %v.Ua
Fall Time	< 5 ns	@ 90 to 10 %v.Ua
Duty cycle	45 / 55 %	@ 1.65 V
V Low	x < 0.4 V	
V High	2.4 < x < 3.3 V	
Sub Harmonics	<- 30 dBc	
Spurious	<- 65 dBc	

Supply voltage

Parameter	Value	Condition
Supply voltage (Vs)	9 V ± 5 %	
Current consumption steady state	< 200 mA	@ Vsnom & 25 °C
Current consumption during warm up	< 500 mA	@ Vs
Reference Voltage output	5 V ± 3 %	

Additional Parameters

Parameter	Value	Condition
Phase Noise	< -60 dBc/Hz < -90 dBc/Hz < -110 dBc/Hz < -120 dBc/Hz < -130 dBc/Hz	1 Hz max values 10 Hz 100 Hz 1 kHz 10 kHz
Warm-up time	< 5 min	@ 25 °C to final frequency
Warm-up time (Vs B)	< 8 min	@ -10 °C to final frequency
Additional information	after warm up: <+/-30ppb per day (incl. TK,supply voltage change,ageing)	
Operable temperature range	-20 °C to 85 °C	
Storage temperature range	-40 °C to 90 °C	
Processing & Packing	handling&processing note	

Additional environmental conditions

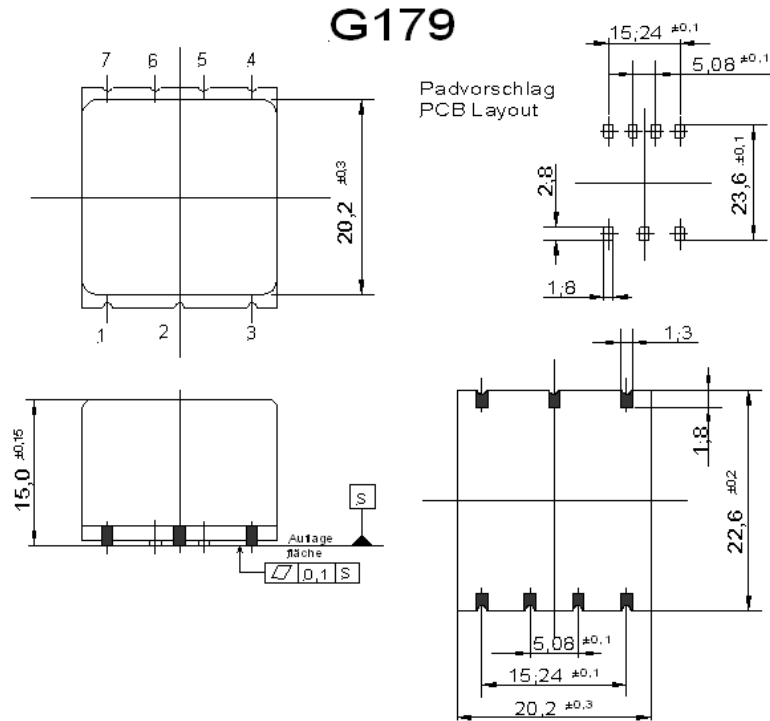
Vibration	stationary: 9..200Hz, 2m/s, sinusoidal, time of occurrence: 1% non station. vibrat.: 50m/s, 6ms
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Additional environmental conditions

Shock non station. vibrat.: 50m/s, 6ms; G-sensitivity: <+/-0,2ppb/G bump: transport: 250m/s; free fall: 250mm
Damp heat -40..90°C, 5..98% RH, absol. humid.: 0,029..35g/cubic meter air pressure: 50..106kPa
Tensile strength of leads DIN IEC 68-2-21, Test Ua1
Flexibility of leads DIN IEC 68-2-21, Test Ub
Sealing test A thermisch dicht (thermic sealed)
Solderability DIN IEC 68-2-20, Test (Ta)
Immersion into cleaning solvents DIN IEC 68-2-45, Test (xA)

Enclosure

Type G179



all units in mm

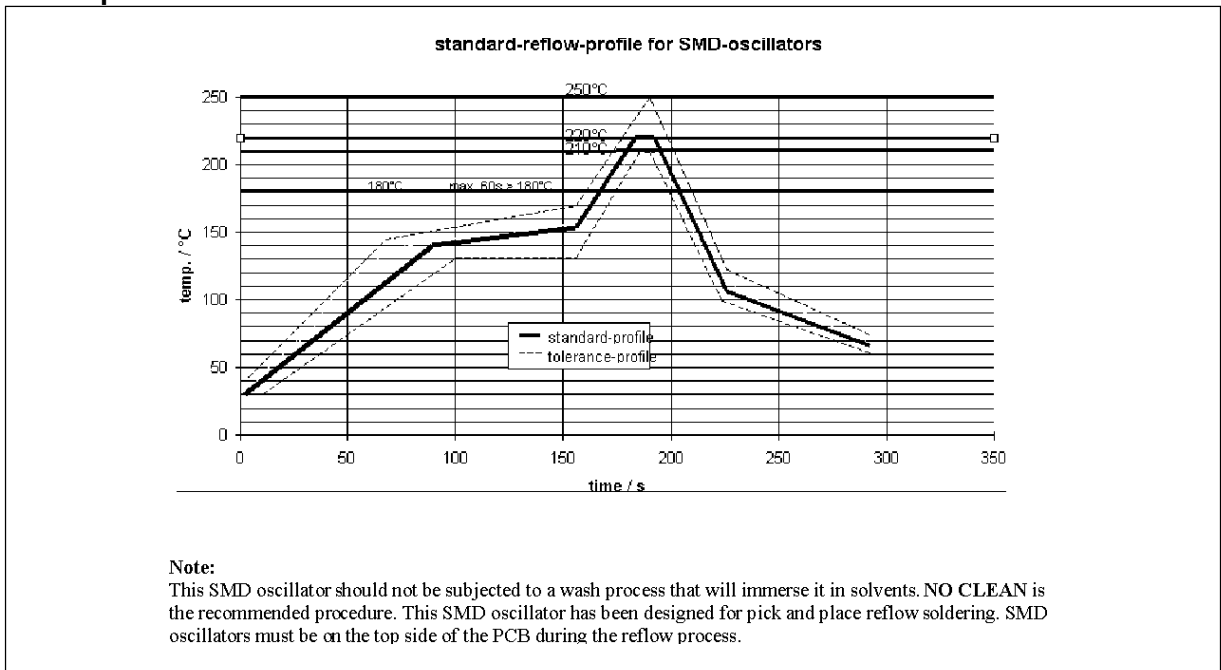
Pin Connections

- Pin 1: RF-Output
- Pin 2: GND
- Pin 3: Vc (control volt.)
- Pin 4: V_refout
- Pin 5: Oven alarm
- Pin 6: GND(Case)
- Pin 7: Vs (supply volt.)

Marking

OCO700-11
61,440 MHz
Ser.Nr. AYYWW *
* Pin-1 marking

Reflow profile



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.