

XO-SM100

1. Specification

Nominal Frequency:	2 ... 80 MHz
Nominal frequency tolerance after reflow soldering, T = 25 ± 3°C:	< ± 10 ppm
Frequency stability in the temperature range - 20°C to + 70°C: vs. supply voltage changes UB ± 5 %: vs. load changes ± 20 %:	< ± 15 ppm < ± 3 ppm < ± 1 ppm
Aging:	± 3 ppm first / ± 1 ppm following years
Supply voltage UB:	5 V ± 5 %
Current consumption for f < 35 MHz: f > 35 MHz:	≤ 20 mA ≤ 30 mA
Output voltage : load : duty cycle : rise time, fall time	HCMOS; Low < 0.4 V; High > 4.0 V 1 kOhm // 15 pF 40 / 60 % < 5 ns
Phase noise @ 100 Hz: @ 1000 Hz:	-95 dBc -130 dBc
Temperature ranges Operating: Operable: Storage:	-20°C ... + 70°C -25°C ... + 75°C -40°C ... + 85°C

2. Environmental conditions

Shock:	DIN IEC 68-2-27, Test Ea, 100 g, 6ms Half-sine, 3 bumps in 3 main directions
Vibration:	DIN IEC 68-2-6, Test Fc, 10-500Hz, 10g, 2 h in 3 main direction
Humidity:	DIN IEC 68-2-3, 40°C/93%RH, 21 days
Solderability:	CECC 00802 Paragr. 7.2.1 Infrared Reflow

3. Marking

Manufacturer's name, date code(week/year)
Specification
Center frequency



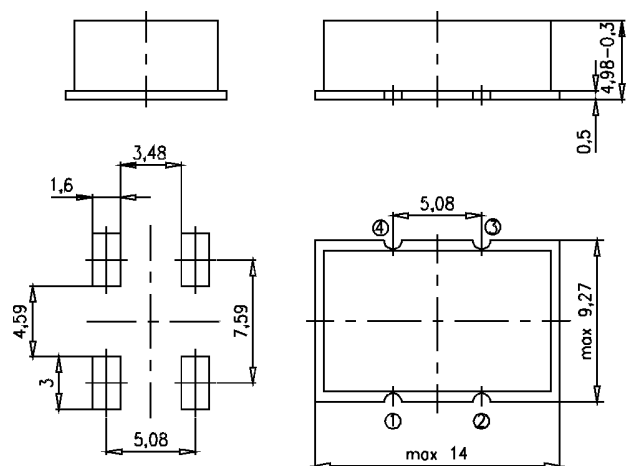
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4. Case

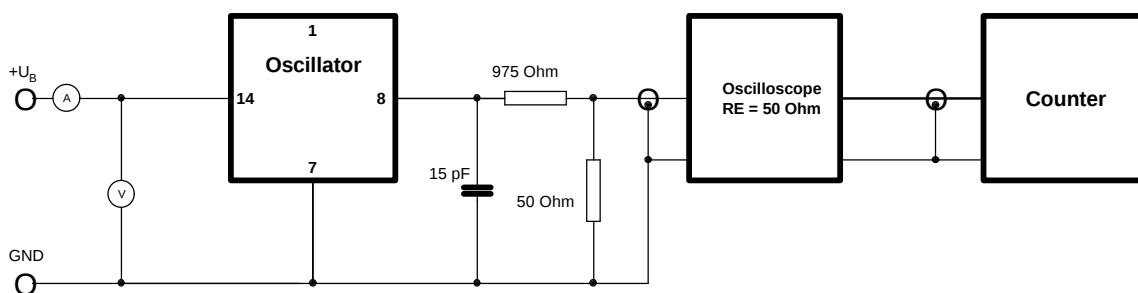
Case style: BF-157



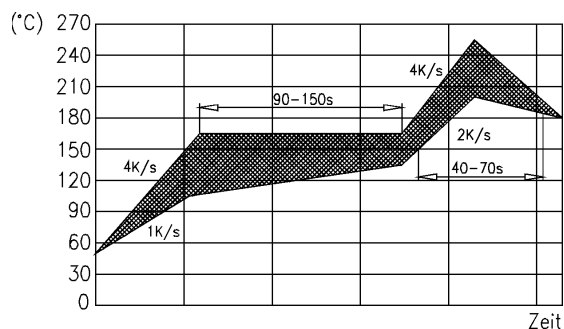
1. Pin configuration

1. N.C.
2. Ground, case
3. RF-output
4. Supply voltage U_B

5. Test circuit



6. Recommended solder profile



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