ROHS-Compliant Product

NWO.30.800813-LF

1. Specification (preliminary)	
Nominal Frequency F_N:	100.000 MHz
Initial frequency tolerance: ($V_C = V_{REF}/2$; T = +25 °C, after power on for 30 min):	$\leq \pm 2 \times 10^{-7}$
Frequency stability in the temperature range -20 °C to +70 °C: vs. supply voltage changes $V_S \pm 5\%$: vs. load changes 50 Ohm ± 10%:	 $\leq \pm 5 \times 10^{-8}$ $\leq \pm 5 \times 10^{-9}$ $\leq \pm 5 \times 10^{-9}$
Aging (after 30 days of continuous operation): per day: per year: 15 years:	 $\leq \pm 1 \times 10^{-9}$ $\leq \pm 1 \times 10^{-7}$ $\leq \pm$ 1.0 ppm
Frequency tuning range:	± 1.5 ppm to ± 2.5 ppm
Frequency control voltage range V_C:	0 V to + 10 V
Reference voltage V_{REF}:	+ 10 V ± 5%
Supply voltage V_S:	+12.0 V ± 5 %
Supply current I_S steady state @ +25 °C: during warm-up:	 ≤ 150 mA ≤ 400 mA
Warm up time: (to $dF/F_0 \leq \pm 5 \times 10^{-8}$ referred to F_0 after 1 hour)	≤ 5 min
Output signal type: Initial output level: Output load impedance:	Sine wave + 5 dBm to + 10 dBm 50 Ohm ± 10%
Output level stability vs. load (50 Ohm ± 10%):	< ± 1 dBm
Harmonics: Spurious (100 Hz to 5 MHz):	≤ -30 dBc ≤ -100 dBc
Phase noise: 1 Hz: 10 Hz: 100 Hz: 1 kHz: 10 kHz: 100 kHz:	typical ≤ -80 dBc / Hz ≤ -110 dBc / Hz ≤ -130 dBc / Hz ≤ -155 dBc / Hz ≤ -165 dBc / Hz ≤ -170 dBc / Hz
Temperature ranges Operating: Storage:	 -20 °C ... +70 °C -40 °C ... +85 °C

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2. Environmental conditions

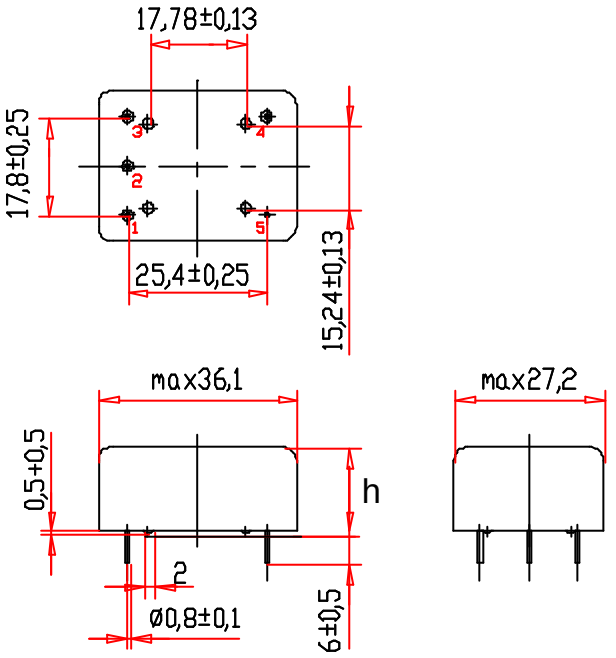
According to KVG Product Qualification Procedure AA-QM-200

3. Marking

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

4. Case

Case style: BF9-IS-19.4



max. height incl. stand-offs: 20.0 mm

1.Pin configuration

1. Control voltage V_C in
2. Reference voltage V_{ref} out
3. Supply voltage V_S
4. RF output
5. Ground, case

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