



ROHS-Compliant Product

NWO.30.801xxx-LF**1. Specification (preliminary)**

Nominal Frequency F_N :	100.000 MHz
Initial frequency tolerance: ($V_C = V_{REF}/2$; $T = +25\text{ °C}$, after power on for 30 min):	$\leq \pm 2 \times 10^{-7}$
Frequency stability in the temperature range -40 °C to $+85\text{ °C}$: vs. supply voltage changes $V_S \pm 5\%$: vs. load changes $50\text{ Ohm} \pm 10\%$:	$\leq \pm 1 \times 10^{-7}$ $\leq \pm 5 \times 10^{-9}$ $\leq \pm 5 \times 10^{-9}$
Aging (after 30 days of continuous operation): per day: per year:	$\leq \pm 3 \times 10^{-9}$ $\leq \pm 1 \times 10^{-7}$
Frequency tuning range (referred to F_N):	$\geq \pm 1.0\text{ ppm}$
Frequency control voltage range V_C :	0 V to + 10 V
Reference voltage V_{REF} :	+ 10 V $\pm 5\%$
Supply voltage V_S :	+ 12.0 V $\pm 5\%$
Supply current I_S steady state @ $+25\text{ °C}$: during warm-up:	$\leq 160\text{ mA}$ $\leq 350\text{ mA}$
Warm up time: (to $dF/F_0 \leq \pm 5 \times 10^{-8}$ referred to F_0 after 1 hour)	$\leq 10\text{ min}$
Output signal type: Initial output level: Output load impedance:	Sine wave $\geq +5\text{ dBm}$ $50\text{ Ohm} \pm 10\%$
Output level stability vs. load ($50\text{ Ohm} \pm 10\%$):	$\leq \pm 1\text{ dBm}$
Harmonics: Spurious (100 Hz to 5 MHz):	$\leq -30\text{ dBc}$ $\leq -100\text{ dBc}$
Phase noise: 10 Hz: 100 Hz: 1 kHz: 10 kHz:	$< -95\text{ dBc / Hz}$ (typ. -100 dBc / Hz) $< -127\text{ dBc / Hz}$ $< -157\text{ dBc / Hz}$ $< -162\text{ dBc / Hz}$
Temperature ranges Operating: Storage:	$-40\text{ °C} \dots +85\text{ °C}$ $-45\text{ °C} \dots +85\text{ °C}$



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2 Environmental conditions

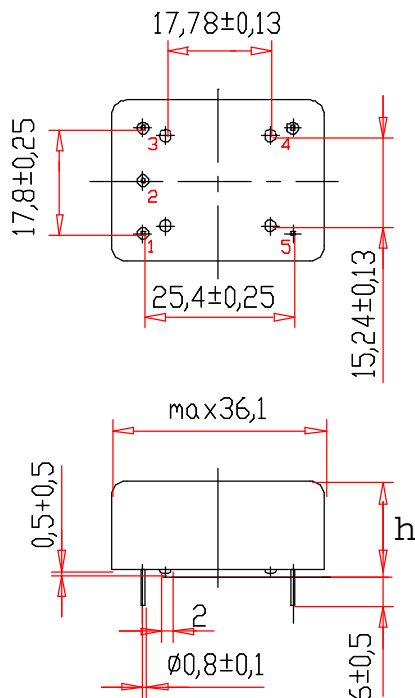
According to KVG Product Qualification Procedure AA-QM-200

3. Marking

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

4. Case

Case style: BF9-IS-19.4



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

max. height incl. stand-offs: 20.0 mm