ROHS-Compliant Product

O.30.810742-LF

1. Specification (preliminary)

Test Conditions: V_S = +12 V; V_C = +5.0 V; T_A = +25 °C ± 3 °C if not stated otherwise.

Nominal frequency F_N:	1000.0 MHz
Frequency stability in the temperature range -40 °C to +70 °C: vs. supply voltage changes V_S ± 5 %: vs. load changes ± 5 %:	 ≤ ± 500 ppb ≤ ± 5 ppb ≤ ± 5 ppb
Aging (after 30 days of continuous operation): per day: first year: 15 years:	 ≤ ± 5 ppb ≤ ± 300 ppb ≤ ± 2 ppm
Frequency control range: (referred to nominal frequency F_N)	≥ ± 2.5 ppm
Control voltage range Vc:	0 V to +10 V
Control input impedance:	≥ 100 kOhm
Modulation bandwidth:	≥ 1 kHz
Transfer function:	Positive
Supply voltage V_S:	+12 V ± 5 %
Current consumption during warm-up: Current consumption @ steady state +25 °C:	≤ 350 mA ≤ 200 mA
Warm up time @ 25°C (within ± 50 ppb referred to final frequency after 1 hr)	≤ 10 min
Output signal: Output level: Nominal load:	Sinewave ≥ +6 dBm 50 Ohm
Harmonics: Subharmonics: Spurious:	≤ -30 dBc ≤ -40 dBc ≤ -100 dBc
Jitter (RMS) 12kHz to 20MHz:	≤ 50 fsec
Phase noise at offset frequency: 10 Hz: 100 Hz: 1 kHz: 10 kHz: 100 kHz: 1 MHz:	Max values ≤ -82 dBc / Hz ≤ -112 dBc / Hz ≤ -138 dBc / Hz ≤ -150 dBc / Hz ≤ -155 dBc / Hz ≤ -155 dBc / Hz
Temperature ranges Operating: Storage:	 -40 °C to +70 °C -40 °C to +85 °C

ED	Description	Date	Name
4			
3			
2			
1		18.02.2022	Schweickert

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Subject to technical modification

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2. Environmental conditions

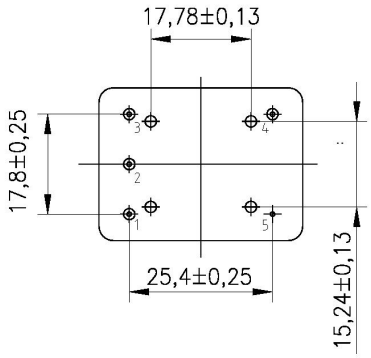
According to KVG Product Qualification Procedure AA-QM-200

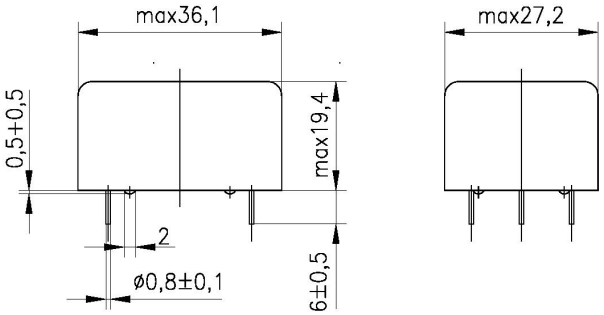
3. Marking

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

4. Case

Case style: BF9-IS-19.4





max. height incl. stand-offs: 20.5 mm

1.Pin configuration

1. Control voltage input V_C
2. N.C.
3. Supply voltage V_S
4. RF output 1000 MHz
5. Ground, case

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