



ROHS-Compliant Product

# NWO-3542SC-S-12.8MHz

1. Specification	
Nominal frequency range :	12.8 MHz
Type:	
Supply voltage $V_S$ :	$3.3\text{ V} \pm 5\%$
Frequency stability vs $-40\text{ }^\circ\text{C}$ to $+85\text{ }^\circ\text{C}$ :	$\leq \pm 1 \times 10^{-8}$
Aging stability (after 30 days of operation)	$\leq \pm 2 \times 10^{-9}$ / day $< \pm 2 \times 10^{-7}$ / year
Frequency stability vs. supply voltage changes $V_S \pm 5\%$ : vs. load changes $\pm 5\%$ :	$\leq \pm 5.0 \times 10^{-9}$ $\leq \pm 1.0 \times 10^{-9}$
Frequency control by ext. voltage $0\text{ V} \dots V_{REF}$ :	No
Transfer function / linearity:	positive / 10 %
Reference Voltage $V_{REF}$ :	No
Power consumption @ $25\text{ }^\circ\text{C}$ : during warm-up : steady state :	$\leq 3.5\text{ W}$ $\leq 1.5\text{ W}$
Warm-up time for a typical accuracy of $< \pm 1 \times 10^{-8}$ @ $+25\text{ }^\circ\text{C}$ referred to final frequency after 1 hour:	$\leq 5\text{ min}$
Output voltage / Load	Sinewave / $\geq 3\text{ dBm} / 50\text{ Ohm}$
Phase noise (typical for 10MHz): 10 Hz 100 Hz 1 kHz 10 kHz	-110 dBc / Hz -130 dBc / Hz -145 dBc / Hz -155 dBc / Hz
Temperature range	$-40\text{ }^\circ\text{C} \dots +85\text{ }^\circ\text{C}$
Storage temperature range:	$-45\text{ }^\circ\text{C} \dots +90\text{ }^\circ\text{C}$



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## 2. Environmental conditions

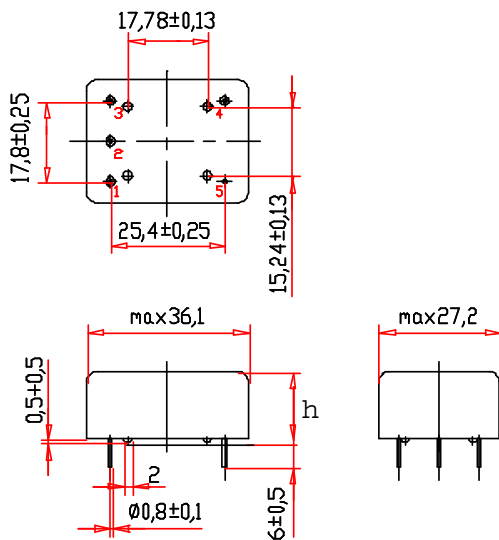
According to KVG Product Qualification Procedure AA-QM-200

## 3. Marking

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

## 4. Case

### Case style: BF9-IS



max. height incl. Stand-off:  
Standard h: 12.7 mm

### 1. Pin configuration

1. N/C
2. N/C
3. Supply voltage  $V_S$
4. RF output
5. Ground, case