



ROHS-Compliant Product

NWT-S555-LF



1. Specification

Nominal Frequency :	1.0 GHz
Overall frequency stability including: - nominal frequ. @ $V_c = 1.5V$, $T = 25^{\circ}C \pm 3^{\circ}C$, - temperature stability in the range $0^{\circ}C$ to $+85^{\circ}C$, - supply voltage changes $U_B \pm 5\%$, - load changes $\pm 5\%$, - aging @ $45^{\circ}C$ over 15 years	$< \pm 20$ ppm
Frequency control range:	$> \pm 40$ ppm
Control voltage V_c :	0 V to 3,0 V
Control input impedance:	> 20 kOhm
Transfer function / Linearity:	Positive / $< 10\%$
Supply voltage U_B :	$3,3 V \pm 5\%$
Current consumption:	≤ 80 mA
Output voltage : load :	Sinewave 0.8Vpp ... 1.5Vpp 50 Ohm
Frequency modulation:	3dB cut-off frequency > 20 kHz
Phase noise: 10 Hz: 100 Hz: 1 kHz: 10 k Hz:	< -62 dBc / Hz < -72 dBc / Hz < -82 dBc / Hz < -92 dBc / Hz
Harmonics : Subharmonics : Spurious :	> 15 dBc > 40 dBc > 80 dBc
Temperature ranges Operating: Storage:	$0^{\circ}C \dots +85^{\circ}C$ $-40^{\circ}C \dots +85^{\circ}C$

2. Environmental conditions

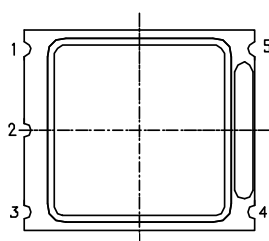
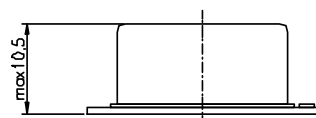
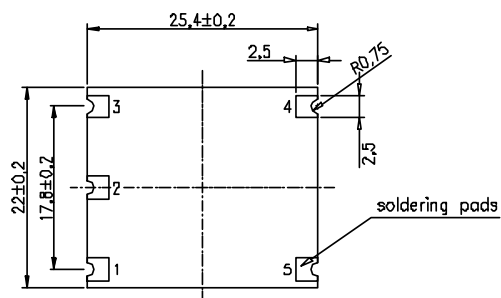
According to KVG Product Qualification Procedure AA-QM-200

3. Marking

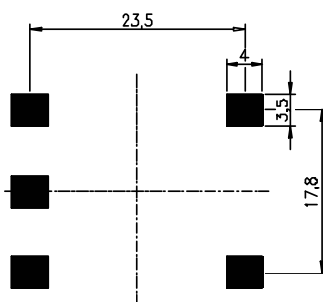
Manufacturer's name, date code(week/year)
Specification
Center frequency

4. Case

Case style: BF144-10.5A-SMD



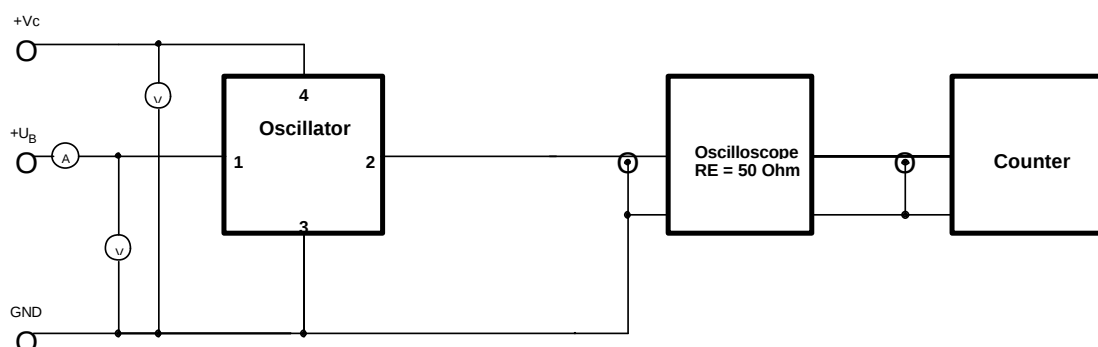
Foot print
for PCB Design



1.Pin configuration

1. Supply voltage
2. HF-output
3. Ground, case
4. Control voltage Vc
5. Ground, case

5. Test circuit



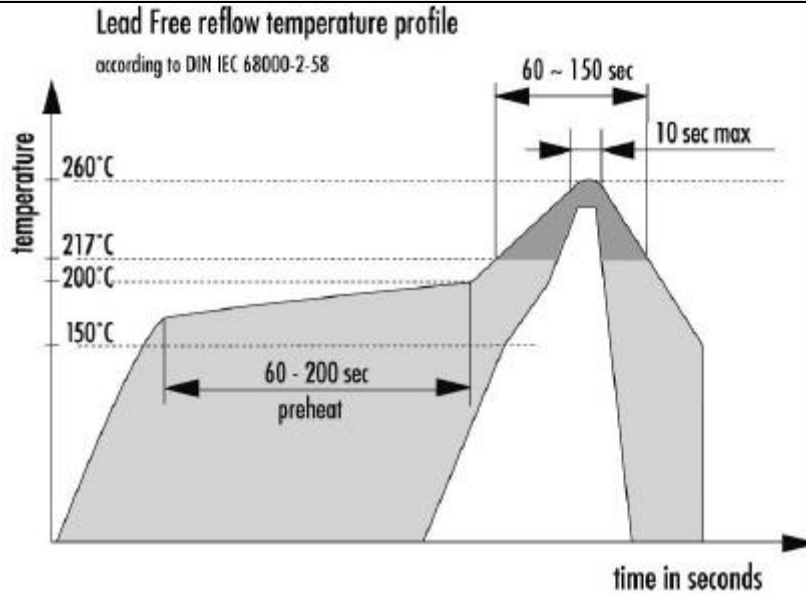


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6. Soldering profile



7. Tape and reel

