



ROHS-Compliant Product

V-850 Series



1. Specification		
Standard Frequencies:	312.50; 322.50; 318.75; 622.08; 644.5313; 657.422; 666.514; 669.3265823; 669.91625; 672.1627; 690.5692; 693,482991; 777.6 MHz	
Nominal frequency tolerance after reflow @ $V_C = +1.65V$, $T = +25 \pm 3^\circ C$:	< ± 15 ppm	
Type:	V-850	V-851
Frequency stability in the temp. range: vs. supply voltage changes $U_B \pm 5\%$: vs. load changes $\pm 5\%$:	< ± 20 ppm / 0 ... $+70^\circ C$ < ± 3 ppm < ± 1 ppm	< ± 30 ppm / $-40 \dots +85^\circ C$ < ± 3 ppm < ± 1 ppm
Aging @ $+25^\circ C$	± 3 ppm / 1. year; ± 2 ppm / following years	
Frequency control range:	> ± 100 ppm	
Control voltage U_C :	0.0 V to $+3.3$ V	
Transfer function / Linearity :	Positive / < 10%	
Input Impedance	> 50 kOhm	
Supply voltage U_B :	$+3.3$ V $\pm 5\%$	
Current consumption with load:	< 90 mA (typ. 70 mA)	
Output voltage : load : duty cycle :	LVPECL complementary output 50 Ohm 45 / 55 %	
Typical phase jitter 12 kHz to 1 MHz:	< 0.5 ps pp / < 0.1 ps rms	
Temperature ranges Operating: Operable: Storage:	0 $^\circ C$... $+70$ $^\circ C$ -20 $^\circ C$... $+75$ $^\circ C$ -45 $^\circ C$... $+95$ $^\circ C$	-40 $^\circ C$... $+85^\circ C$ -40 $^\circ C$... $+85^\circ C$ -45 $^\circ C$... $+95^\circ C$
2. Environmental conditions		
According to KVG Product Qualification Procedure AA-QM-200		

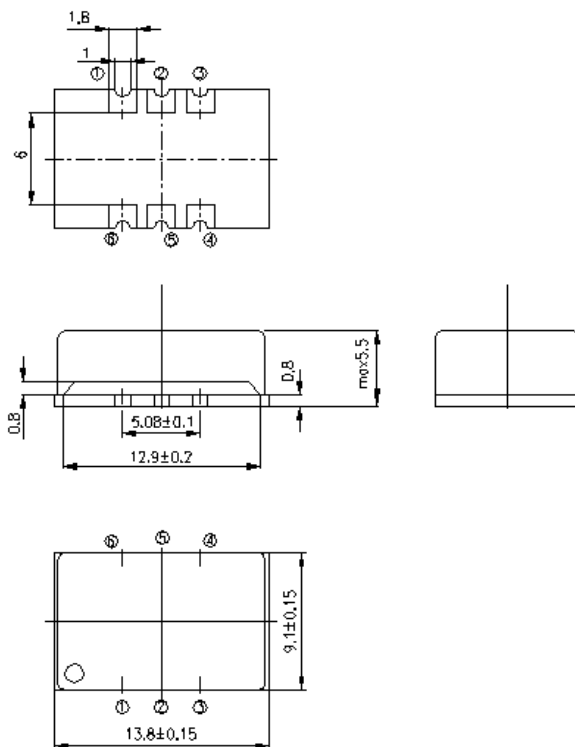
6	-40...+85°C option	13.06.03	H.-J. Herzog	KVG Quartz Crystal Technology GmbH P.O.Box 61 D-74924 Neckarbischofsheim Tel. +49 (0) 7263 / 648-0 Fax. +49 (0) 7263 / 6196
5	standard frequencies	03.06.03	H.-J. Herzog	
4	New standard frequencies	28.02.03	H.-J. Herzog	
3	revision	30.08.02	H.-J. Herzog	
ED	Description	Date	Name	

3. Marking

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

4. Case

BF 157-5.5H



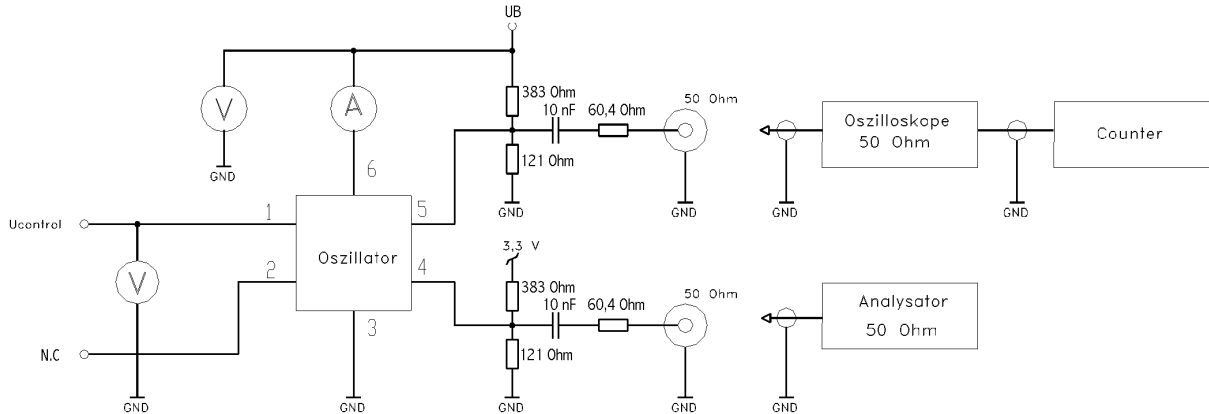
1.Pin configuration

1. Control voltage input
2. N.C.
3. Ground, case
4. RF-output
5. Complementary RF-output
6. Supply voltage U_B

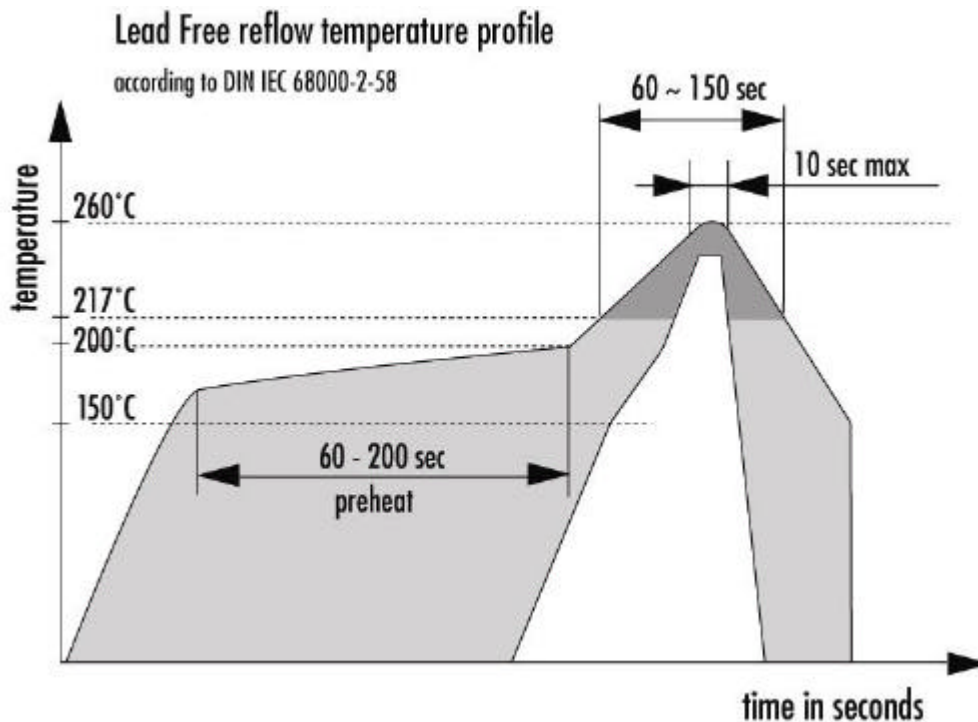
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5. Test circuit

LVPECL:



6. Soldering profile



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