



V-9700/9800 Series



1. Specification		
Type:	V-9700	V-9800
Power supply voltage V_B :	+3.3 V \pm 10%	+2.5 V \pm 5%
Frequency Range:	50 MHz ... 200.0 MHz	
Standard Frequencies:	76.8, 77.76, 106.25, 122.88, 125, 155.52, 156.25 MHz	
Power supply current f < 65 MHz: f < 200 MHz:	75 mA 100 mA	45 mA 80 mA
Overall stability ⁽¹⁾ : \pm 70 ppm \pm 50 ppm: \pm 25 ppm (n.a. for $-40/+85$ °C):	V-9770 V-9750 V-9725	V-9870 V-9850 V-9825 ⁽²⁾
Temp. Range Options -10 °C to +60 °C: -20 °C to +70 °C: -40 °C to +85 °C:	B C E	
Control voltage range V_C :	+0.3 V to +3.0 V	+0.25 V to +2.25 V
Control voltage input impedance:	\geq 50 kOhm	
Pulling range referred to f_c at ($V_C = +1.65$ V / +1.25 V):	\pm 70 ppm For other options please contact factory	
Output Enable/Disable options: U : E/D control input Logic HIGH or N.C. E/D control input Logic LOW S : E/D control input Logic LOW or N.C. E/D control input Logic HIGH	Output Enable Output Disable Output Enable Output Disable	
Start-up time:	< 3 ms	
RMS Phase Jitter (12 kHz – 20 MHz):	<1 ps rms	
Storage Temperature Range::	-55 °C ... +125 °C	

Note (1): overall stability includes: initial tolerance, 1st year aging, frequency stability vs. temperature, vs. supply voltage changes \pm 5%, vs. load changes \pm 5%.

Note (2): overall stability includes: initial tolerance, 1st year aging, frequency stability vs. temperature, vs. load changes \pm 5%. Excluding \pm 8 ppm frequ.stability vs. supply voltage changes \pm 5%

4				KVG Quartz Crystal Technology GmbH P.O.Box 61 D-74924 Neckarbischofsheim Tel. +49 (0) 7263 / 648-0 Fax. +49 (0) 7263 / 6196
3	Note (2)	27.11.08	Zupan	
2	Pulling range	15.09.05	Zupan	
1		07.02.05	Rudolph	
ED	Description	Date	Name	



ROHS-Compliant Product

V-9700/9800 Series



<p>Output signal type options:</p> <p>P: LVPECL level: load : duty cycle : rise time, fall time 20% / 80%:</p>	<p>VOH > +2.275 V, VOL < +1.68 V 50 Ohm 45 / 55% <1.5 nsec</p>
<p>L: LVDS level: load :</p>	<p>250 mV < IV_{ODI} < 450 mV 100 Ohm sym.</p>

2. Environmental conditions

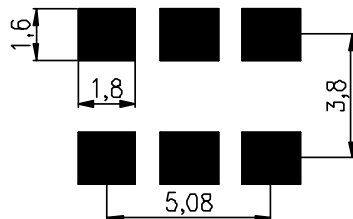
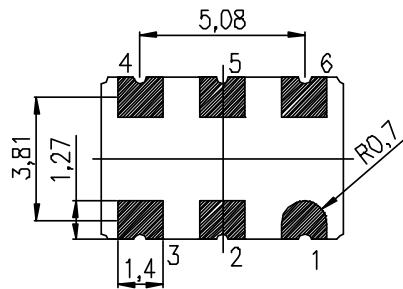
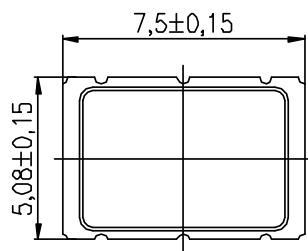
According to KVG Product Qualification Procedure AA-QM-200

3. Marking

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

4. Case

Case style: BF-189-2.0C

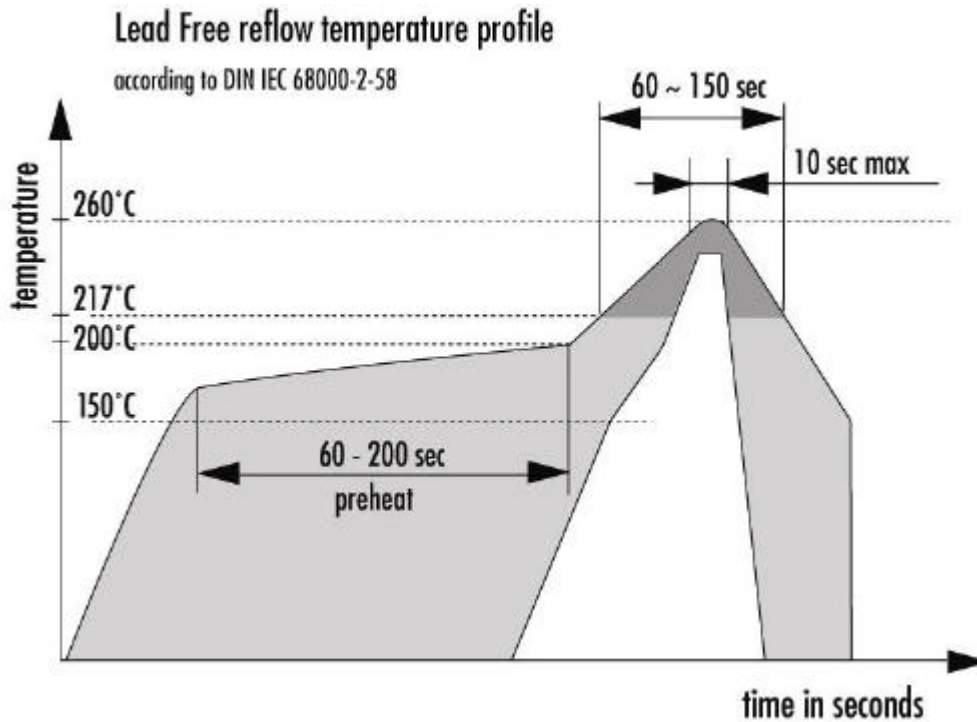


Recommended Soldering Pattern

1. Pin configuration

1. Control voltage V_C
2. E/D Control Input
3. Ground, Case
4. RF output
5. Compl. RF output
6. Supply voltage V_B

4				KVG Quartz Crystal Technology GmbH P.O.Box 61 D-74924 Neckarbischofsheim Tel. +49 (0) 7263 / 648-0 Fax. +49 (0) 7263 / 6196
3	Note (2)	27.11.08	Zupan	
2	Pulling range	15.09.05	Zupan	
1		07.02.05	Rudolph	
ED	Description	Date	Name	

5. Reflow Soldering Profile


4				KVG Quartz Crystal Technology GmbH
3	Note (2)	27.11.08	Zupan	P.O.Box 61
2	Pulling range	15.09.05	Zupan	D-74924 Neckarbischofsheim
1		07.02.05	Rudolph	Tel. +49 (0) 7263 / 648-0
ED	Description	Date	Name	Fax. +49 (0) 7263 / 6196