



ROHS-Compliant Product

# XO-75000H Series



1. Specification				
Frequency Range:	12.00 kHz to 160.00 MHz			
Type:	<b>XO-75B</b>	<b>XO-75A</b>	<b>XO-75H</b>	<b>XO-75J</b>
Supply voltage Vs:	+5.0 V ± 5%	+3.3 V ± 5%	+2.5 V ± 5%	+1.8 V ± 5%
Current consumption: (with 15 pF load):	≤ 20 mA < 20 MHz ≤ 30 mA < 50 MHz ≤ 40 mA < 70 MHz ≤ 50 mA < 125 MHz	≤ 10 mA < 20 MHz ≤ 20 mA < 50 MHz ≤ 40 mA < 100 MHz ≤ 50 mA < 156 MHz	≤ 8 mA < 20 MHz ≤ 15 mA < 50 MHz ≤ 20 mA < 70 MHz ≤ 25 mA < 125 MHz	≤ 5 mA < 20 MHz ≤ 15 mA < 50 MHz ≤ 20 mA < 70 MHz ≤ 30 mA < 160 MHz
Operating temperature Options -10 °C to +60 °C: -20 °C to +70 °C: -40 °C to +85 °C:	<b>1060</b> <b>2070</b> <b>4085</b>			
Frequency stability (1) ≤ ± 25 ppm ≤ ± 50 ppm ≤ ± 100 ppm	<b>B</b> <b>F</b> <b>G</b>			
Output voltage : level: load: duty cycle:	<b>HCMOS / TTL</b> low < 10% V <sub>S</sub> , high > 90% V <sub>S</sub> 1 kOhm // 15 pF (option <b>H</b> : 50 pF) 40% / 60% (option <b>J</b> : 45% / 55%)			
Phase jitter (12 kHz to 20 MHz):	≤1 ps RMS			
Output E/D options: E/D Control Input at Pin 1: No E/D Control Input:	<b>T</b> <b>X</b>			

Note (1): overall frequency stability includes: Initial tolerance, 1st year aging, frequency stability vs. temperature, vs. supply voltage changes ± 5%, vs. load changes ± 5% and 1st year aging.

2. Environmental conditions
According to KVG Product Qualification Procedure AA-QM-200
3. Marking
Manufacturer's name, date code(week/year); Specification; Center frequency

12	New product coding	28.05.15	Dannenmaier	<b>KVG Quartz Crystal Technology GmbH</b> <b>P.O.Box 61</b> <b>D-74924 Neckarbischofsheim</b> Tel. +49 (0) 7263 / 648-0 Fax. +49 (0) 7263 / 6196
11	Output voltage level added	22.04.09	M. Zupan	
10	1.8V Option added	30.07.08	M. Zupan	
9	phase jitter added	02.03.07	Rudolph	
ED	Description	Date	Name	



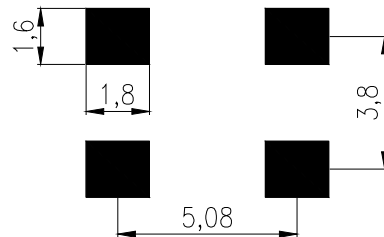
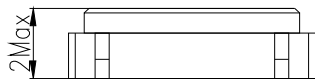
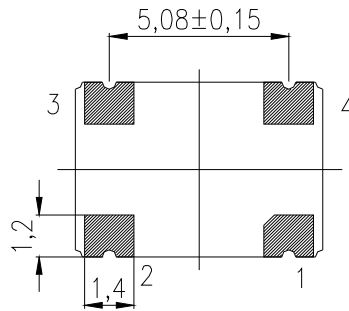
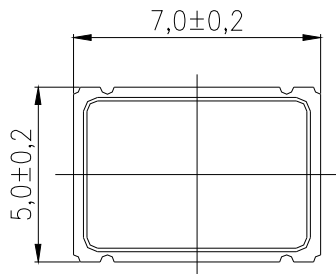
ROHS-Compliant Product

# XO-75000H Series



## 4. Case

Case style: BF-189-2.0A



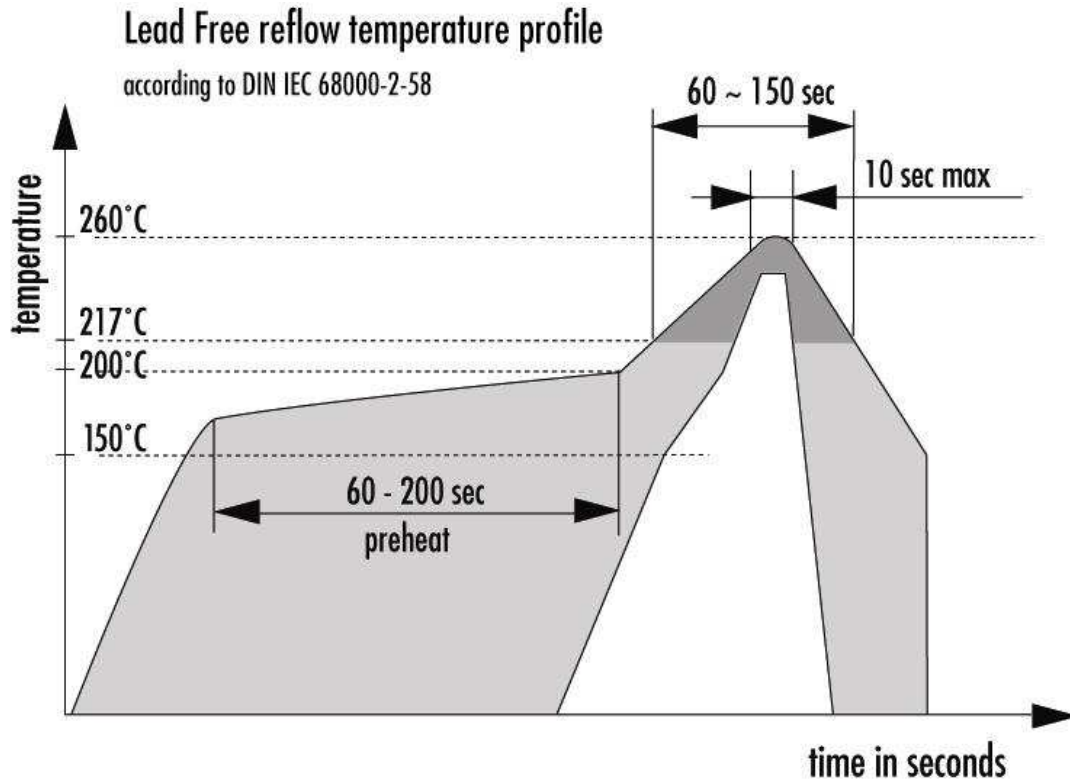
Recommended Soldering Pattern

### 1. Pin configuration

1. N.C./Tristate Control Input
2. Ground case
3. RF Output
4. Supply voltage Vs

12	New product coding	28.05.15	Dannenmaier	<b>KVG Quartz Crystal Technology GmbH</b> <b>P.O.Box 61</b> <b>D-74924 Neckarbischofsheim</b> Tel. +49 (0) 7263 / 648-0 Fax. +49 (0) 7263 / 6196
11	Output voltage level added	22.04.09	M. Zupan	
10	1.8V Option added	30.07.08	M. Zupan	
9	phase jitter added	02.03.07	Rudolph	
ED	Description	Date	Name	

## 5. Reflow Soldering Profile



## 6. Ordering Information

Type & Package code	Supply voltage	Temperature range LOW/HIGH	Freq. stability	Output signal	Tristate func.	RoHS compl	Nominal frequency
<b>XO-75:</b> BF189-2.0A	<b>A:</b> 3.3V; <b>B:</b> 5.0V; <b>H:</b> 2.5 V; <b>J:</b> 1.8V;	<b>1060:</b> -20 / +70 °C <b>2070:</b> -20 / +70 °C <b>4085:</b> -40 / +85 °C	<b>B:</b> ± 25 ppm; <b>F:</b> ± 50 ppm; <b>G:</b> ±100ppm;	<b>H:</b> (LV)HCMOS 15pF load 40/60 duty; <b>HH:</b> (LV)HCMOS 50pF load 40/60 duty; <b>HHJ:</b> (LV)HCMOS 50pF load 45/55 duty; <b>HJ:</b> (LV)HCMOS 15pF load 45/55 duty;	<b>T; X</b>	<b>-LF</b>	- XX.YYY MHz

Example: XO-75A2070BHHJT-LF-120.000MHz

12	New product coding	28.05.15	Dannenmaier	<b>KVG Quartz Crystal Technology GmbH</b> P.O.Box 61 D-74924 Neckarbischofsheim Tel. +49 (0) 7263 / 648-0 Fax. +49 (0) 7263 / 6196
11	Output voltage level added	22.04.09	M. Zupan	
10	1.8V Option added	30.07.08	M. Zupan	
9	phase jitter added	02.03.07	Rudolph	
ED	Description	Date	Name	