



XO-75000PL Series



1. Specification		
Frequency Range:	38.88 MHz to 1500 MHz	
Standard frequencies:	77.760; 100.000; 106.250; 125.000; 133.330; 155.520; 156.250; 159.375; 161.1328125; 164.355469; 187.500; 212.500; 250.000; 312.500; 622.080 MHz	
Type:	XO-75A	XO-75H
Supply voltage V_S :	+3.3 V \pm 5 %	+2.5 V \pm 5 %
Current consumption:	\leq 80 mA	\leq 50 mA
Operating temperature Options -20 °C to +70 °C: -40 °C to +85 °C:	2070 4085	
Frequency stability (¹) $\leq \pm$ 25 ppm $\leq \pm$ 50 ppm $\leq \pm$ 100 ppm	B F G	
Note (1): overall frequency stability includes: initial tolerance, frequency stability vs. temperature, vs. supply voltage changes \pm 5%, vs. load changes \pm 5% and 1st year aging.		
Output signal type options:		
P: LVPECL level ($V_S = +3.3$ V): level ($V_S = +2.5$ V): load: duty cycle: rise time, fall time 20 % / 80 %:	High: $\geq +2.275$ V, Low: $\leq +1.680$ V High: $\geq +1.475$ V, Low: $\leq +1.095$ V 50 Ohm 45 / 55 % ≤ 1.0 nsec	
L: LVDS level ($V_S = +3.3$ V): level ($V_S = +2.5$ V): load: duty cycle: rise time, fall time 20 % / 80 %:	247 mV < VOD < 454 mV 247 mV < VOD < 454 mV 100 Ohm 45/55 % ≤ 1.0 nsec	
Start-up time:	5 ms	
Phase jitter (12 kHz to 20 MHz):	≤ 1 ps RMS	
Aging @ 25°C, 1 st year:	$\leq \pm 3$ ppm	
Output E/D options: E/D Control Input at Pin 1: E/D Control Input at Pin 2:	T O	
Output disabled => E/D Control Input: Output enabled => E/D Control Input:	$\leq +0.5$ V $\geq +2.5$ V or n.c.	$\leq +0.5$ V $\geq +2.0$ V or n.c.

..9	Frequency range	17.11.16	Rudolph	KVG Quartz Crystal Technology GmbH P.O.Box 61 D-74924 Neckarbischofsheim Tel. +49 (0) 7263 / 648-0 Fax. +49 (0) 7263 / 6196
8	New product coding	13.05.15	Dannenmaier	
7	Aging	25.08.14	Balzer	
6	Package dimensions	20.08.09	Zupan	
ED	Description	Date	Name	

2. Environmental conditions

According to KVG Product Qualification Procedure AA-QM-200

Storage Temperature range

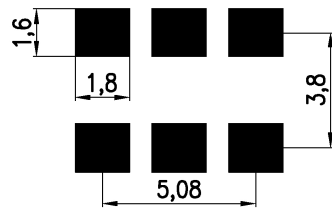
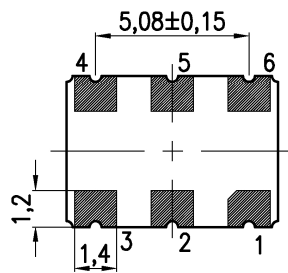
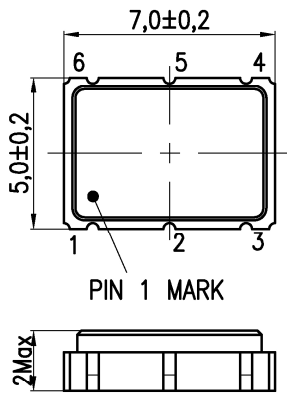
-55 °C ... +125 °C

3. Marking

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

4. Case

Case style: BF-189-2.0B



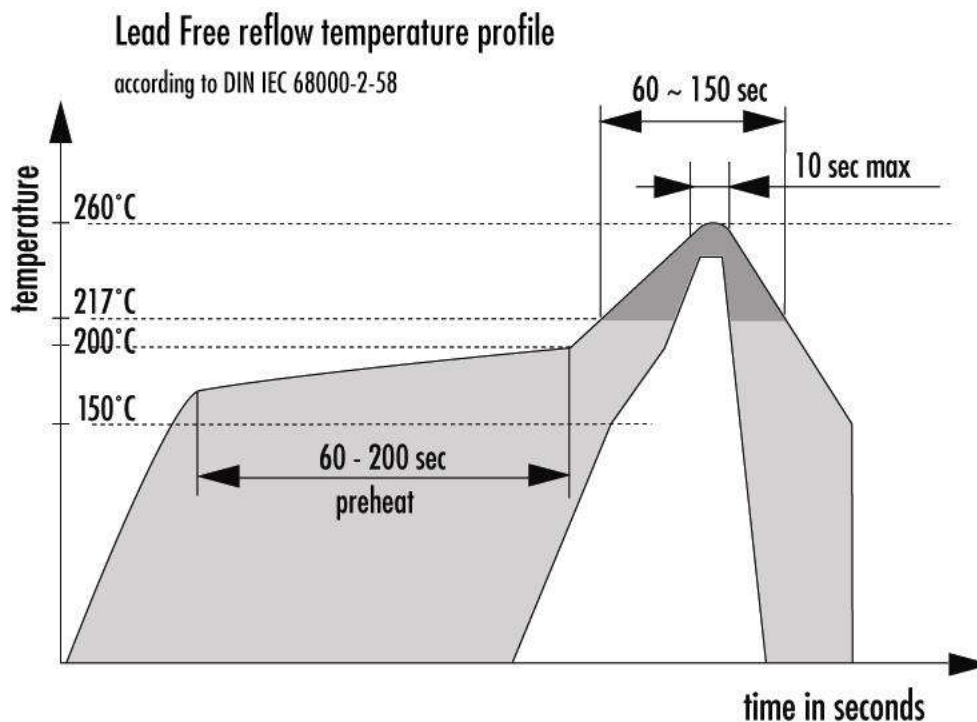
Recommended Soldering Pattern

Pin configuration

1. N.C./Tristate Control Input
2. Tristate Control Input/N.C.
3. Ground case
4. RF Output
5. Complementary RF Output
6. Supply voltage U_B

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5. Reflow Soldering Profile



6. Ordering Information

Type & Package code	Supply voltage	Temperature range LOW/HIGH	Frequency stability	Output signal	Tristate func.	RoHS compl	Nominal frequency
XO-75: BF189-2.0B	A: 3.3V; H: 2.5 V;	2070: -20 / +70 °C 4085: -40 / +85 °C	B: ± 25 ppm; F: ± 50 ppm; G: ± 100 ppm;	P: LVPECL; L: LVDS	T; O	-LF	- XX.YYY MHz

Example: XO-75H4085FPT-LF - 1000.000 MHz

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