



ROHS-Compliant Product

XO-53000H Series

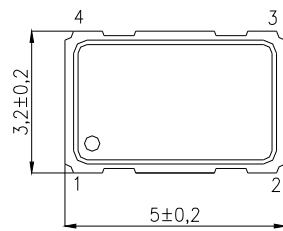
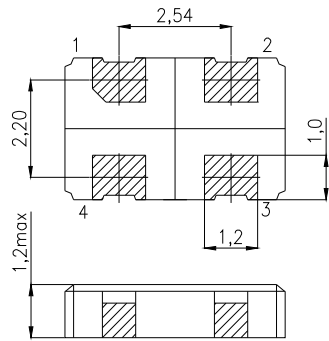


1. Specification				
Type:	XO-53500H	XO-53330H	XO-53250H	XO-53180H
Supply Voltage V_S :	+5.0 V \pm 5%	+3.3 V \pm 5%	+2.5 V \pm 5%	+1.8 V \pm 5%
Nominal frequency range:	12kHz ... 125MHz	12kHz...160MHz	12kHz ... 160MHz	12kHz ... 125MHz
Frequency stability options: +25 ppm: +50 ppm: \pm 100 ppm:	XO-53501H XO-53502H XO-53503H	XO-53331H XO-53332H XO-53333H	XO-53251H XO-53252H XO-53253H	XO-53181H XO-53182H XO-53183H
Frequency stability is considered as the overall stability including nominal frequency tolerance at +25°C, frequency stability vs. temperature, vs. load changes (\pm 5%), vs. supply voltage changes (\pm 5%) and 1 st year aging.				
Temp. range Options -20 °C to +70 °C: -40 °C to +85 °C:	S E			
Tri-State Options:	F : Fixed Frequency without Tri-State T : Tri-State function			
Tri-State Function:	Logic High or NC: Output Enable Logic Low: Output Disable			
Current consumption (with 15 pF load):	\leq 10mA < 20MHz \leq 30mA < 50MHz \leq 40mA > 70MHz \leq 50mA < 125MHz	\leq 7mA < 20MHz \leq 20mA < 50MHz \leq 30mA < 100MHz \leq 40mA < 125MHz \leq 45mA < 160MHz	\leq 7mA < 20MHz \leq 15mA < 50MHz \leq 20mA < 70MHz \leq 30mA < 125MHz \leq 35mA < 160MHz	\leq 5mA < 20MHz \leq 15mA < 50MHz \leq 20mA < 70MHz \leq 25mA < 125MHz
Output voltage : level : load : duty cycle:	HCMOS low < 10% V_S , high > 90% V_S 1 kOhm // 15 pF 45% / 55% for f < 100 MHz 40% / 60% for f > 100 MHz			
Phase jitter: (12 kHz to 20 MHz BW)	< 1 ps rms			
Storage Temp.range	-55 °C ... +105 °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				

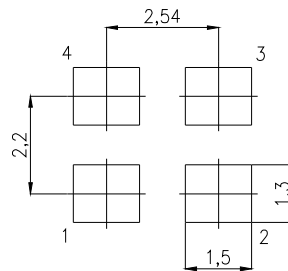
				KVG Quartz Crystal Technology GmbH P.O.Box 61 D-74924 Neckarbischofsheim Tel. +49 (0) 7263 / 648-0 Fax. +49 (0) 7263 / 6196
		31.08.10	M. Zupan	
ED	Description	Date	Name	

4. Case

Case Style : 193-1.2A



Recommended soldering pattern



1.Pin configuration

1. Tri-State Control Input or N.C.
2. Ground (case)
3. RF Output
4. Supply Voltage V_s

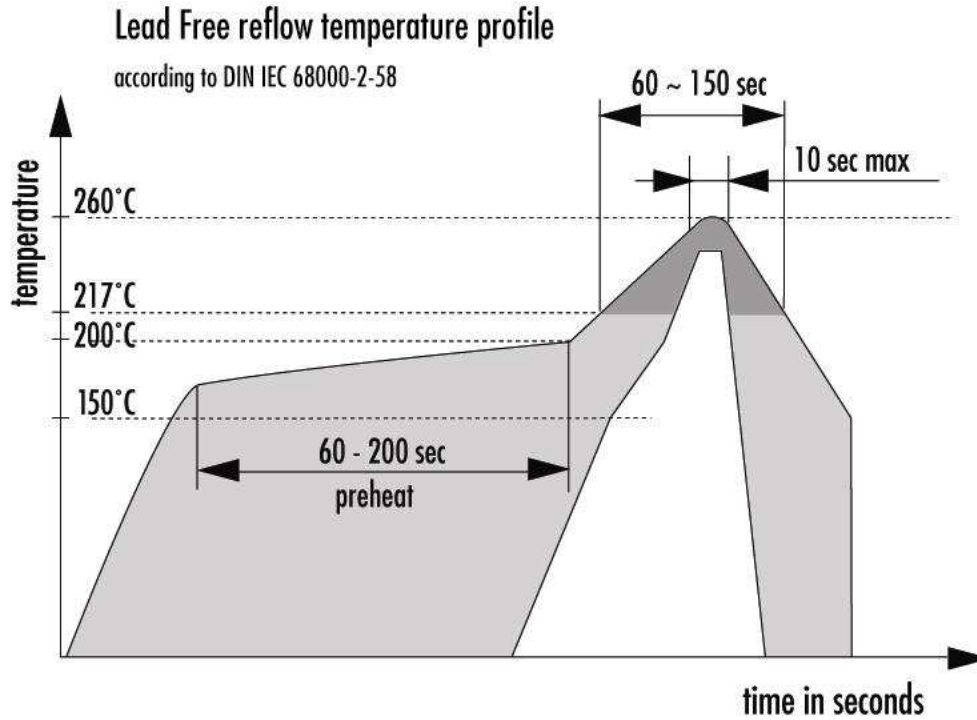
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5. Reflow Soldering Profile



6. Ordering Information

Package Code	Supply Voltage	Frequ. Stability	Output Voltage	Temp. range	TriState Option	RoHS compl.	Nominal Frequency
BF193-1.2A	3.3 V	± 25 ppm	HCMOS	-20/+70°C	TriStat		- XX.YYY MHz
XO-53	33	1	H	S	T	-LF	-50.000MHz

Example: XO-53331HST-LF-50.000 MHz

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