



ROHS-Compliant Product

XO-9700M Series



1. Specification		
Type	PLL Multiplier with compl. PECL or LVDS outputs	
Frequency Range:	100 MHz to 700 MHz	
Frequency stability (1) < + 25 ppm < + 50 ppm < + 100 ppm	XO-9710M XO-9720M XO-9730M	
(1) Overall frequency stability including adjustment tolerance, frequency stability vs. temperature, vs. supply voltage changes $U_B \pm 5\%$, vs. load changes $\pm 5\%$ and 1st year aging		
Operating temperature Options -20 °C to +70 °C: -40 °C to +85 °C:	S E	
Supply voltage U_B :	+3.3 V $\pm 5\%$	
Current consumption: 100 MHz = f = 160 MHz: 160 MHz = f = 700 MHz	≤ 80 mA ≤ 100 mA	
Output Enable/Disable options E/D Control Input Pin 1: E/D Control Input Pin 2 (standard):	R T	
E/D Control Input < +0.5 V: E/D Control Input > +2.5 V or not connected:	Output disabled Output enabled	
Output option:	P	L
Output voltage : Level: load: duty cycle: rise time, fall time 20% to 80%:	LVPECL High > 2.275 V, Low < 1.68 V 50 Ohm 45/55 % 1.0 nsec	LVDS 247 mV < V_{OD} < 454 mV 100 Ohm 45/55 % 1.76 nsec
Phase jitter 12 kHz ... 20 MHz:	≤ 4 psec. RMS	
Start-up time:	< 5 ms	
Temperature ranges Operable: Storage:	-40 °C ... +85 °C -55 °C ... +125 °C	
2. Environmental conditions		
According to KVG Product Qualification Procedure AA-QM-200		

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	Package dimensions	20.08.09	Zupan	
2	frequency range extended	25.10.05	Rudolph	
1		15.10.04	Rudolph	
ED	Description	Date	Name	



ROHS-Compliant Product

XO-9700M Series

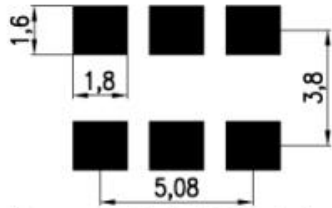
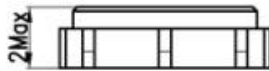
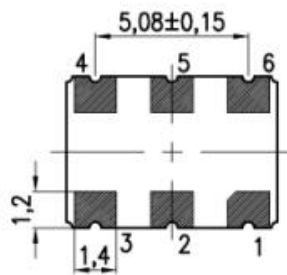
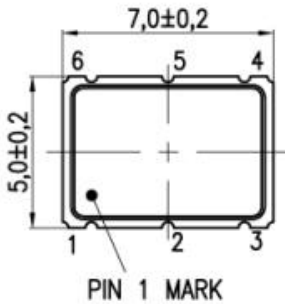


3. Marking

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

4. Case

Case style: BF-189-2.0B



Recommended Soldering Pattern

1.Pin configuration

1. N.C. / (E/D control)
2. E/D control
3. Ground case
4. RF output
5. Complementary RF output
6. Supply voltage U_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	Package dimensions	20.08.09	Zupan	
2	frequency range extended	25.10.05	Rudolph	
1		15.10.04	Rudolph	
ED	Description	Date	Name	

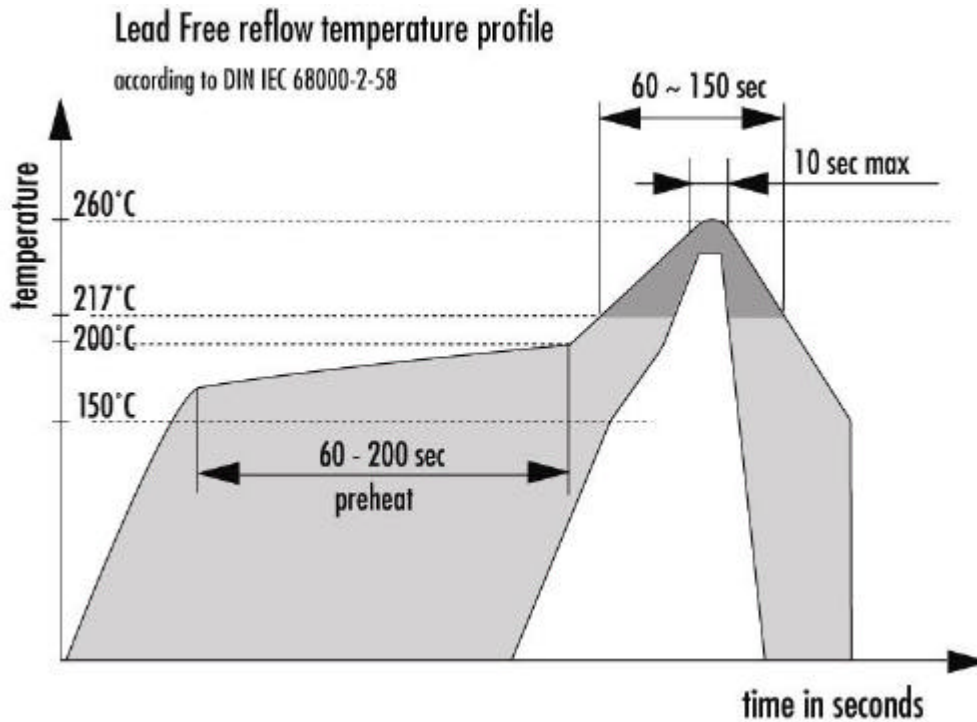


ROHS-Compliant Product

XO-9700M Series



5. Reflow Soldering Profile



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	Package dimensions	20.08.09	Zupan	
2	frequency range extended	25.10.05	Rudolph	
1		15.10.04	Rudolph	
ED	Description	Date	Name	