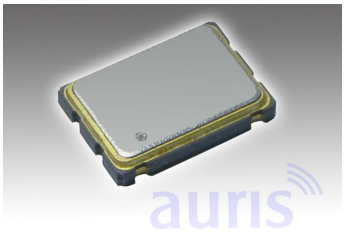
Features AQO-Series

RoHS compliant
REACH compliant
Conflict mineral free

- Small size 7x5mm
- Good price/performance ratio
- Excellent for laptop and handheld PDA`s
- Power down or standby available

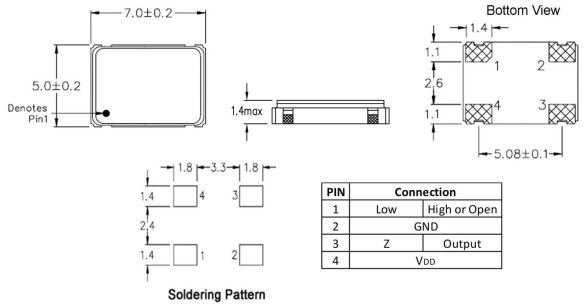


AQO7050

Specification

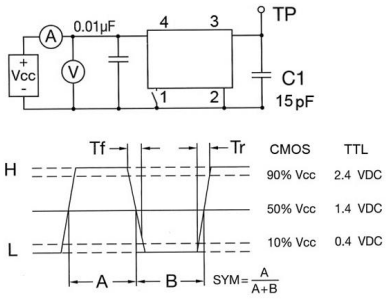
Type	AQO7050 CMOS		Supply Current
Frequency Range	1,0MHz ~ 160,0MHz		1,0MHz ~ 20,0MHz = 6~15mA
Frequency Tolerance over all*	available ±20 ~ ±100ppm		20,0MHz ~ 50,0MHz = 15~35mA
Power Supply (Vdd)	0,8 ~ 5,0V		50,0MHz ~ 100,0MHz = 25~60mA
Operating Temperature Range	0°C ~ +70°C, or order code		
Output Signal / Load	CMOS / 15pF (30pF/50pF optional)		
Output Symmetry	40/60% (45/55% optional)		
Output Voltage	90% of Vddmin. / 10% of Vdd max.		
Rise/Fall Time	10ns max. <5ns typical (10% to 90% Vdd)		Operating Temperature Range (ppm)
Start Up Time	10ms max. <4ms typical		-20°C ~ +70°C standard ±50 available ±10 ~ ±100
Aging	±5ppm/year max		-40°C ~ +85°C standard ±50 available ±10 ~ ±100
Storage Temperature	-55°C - +125°C		Extended temperature range up to +125°C on request
RoHS	compliant		
Contents Of Reel	1000 pcs		*Incl. tol. at 25°C, temp. range, Vdd and load change, aging

Drawing (mm)

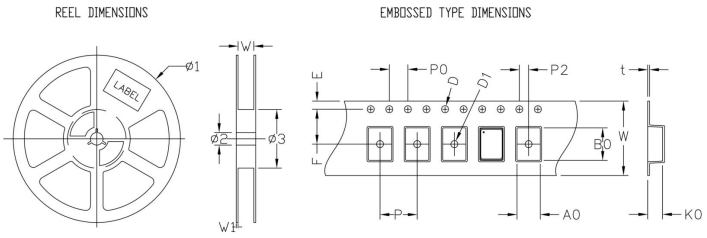


PIN	Connection	
1	Low	High or Open
2	GND	
3	Z	Output
4	VDD	

Test Circuit/Waveform



Tape dimension (mm)



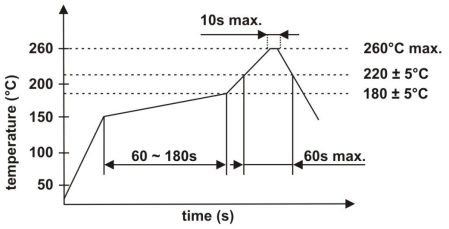
ITEM	Ø1±0.5	Ø2±0.25	Ø3±0.3	W±0.2	W1±0.25
16mm	178	13.2	62.5	16.4	2

ITEM	W+0.3/0.1	A0±0.1	B0±0.1	K0±0.1	P±0.1	F±0.1	t±0.05	Qty
7050	16.0	5.5	7.5	2.0	8.0	7.5	0.3	1000

E=1.75±0.1、 D=1.5±0.1、 D1=1.5+0.25/-0.0、 P0=4.0±0.1、 P2=2.0±0.1

package 7050

Soldering profile



Order code

O	- 10.000000M	- AQO 7050	- 50	- 5.0	- A	-	- T	/ TR
Part	**Frequency**	**Type**	**Tolerance**	**Voltage**	**Temperature**	**Load**	**Tristate**	**Packaging**
O=Oscillator	M=MHz	AQO=Quartz oscillator AQO 7050=SMD 7x5	±ppm	5.0=5.0Volt 3.3=3.3Volt 2.5=2.5Volt 1.8=1.8Volt	A= 0°C ~ +70°C B= -10°C ~ +60°C C= -10°C ~ +70°C D= -20°C ~ +70°C E= -40°C ~ +85°C	blank = 15pF 3 = 30pF 5 = 50pF	Pin 1 connected	TR = tape + reeled