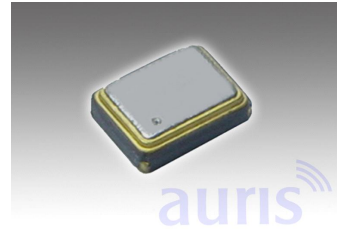


## Features

- Small size 2,5x2mm
- Clock-type
- High accuracy

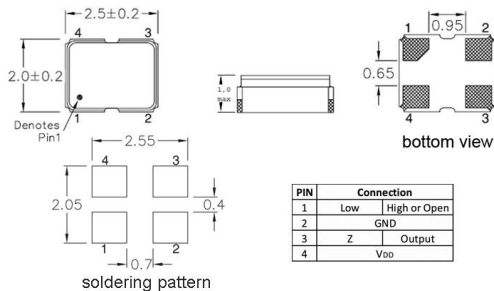


## AQO2520 Clock

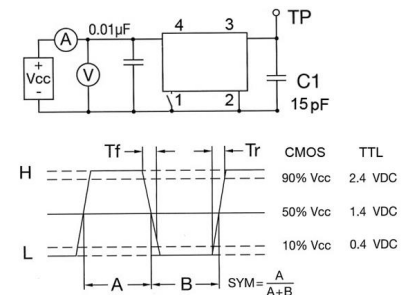
### Specification

Type	AQO2520	Supply Current
Frequency Range	32,768 kHz	32,768 kHz = 200µA (10µA available)
Frequency Tolerance over all*	available ±20 ~ ±50ppm	
Power Supply (Vdd)	+1,8V - +5,0V D.C. ±10%	
Operating Temperature Range	-20°C ~ +70°C / -40°C ~ +85°C	
Output Signal/Load	CMOS/15pF	
Output Symmetry	45/55% (0,5Vdd)	
Output Voltage	90% of Vddmin. / 10% of Vdd max.	
Rise/Fall Time	30ns max. <5ns typical (10% to 90% Vdd)	
Start Up Time	10ms max.	Operating Temperature Range (ppm)
Aging	±5ppm/year max	-20°C ~ +70°C standard ±50 available ±20 ~ ±50
Storage Temperature	-55°C - +125°C	-40°C ~ +85°C standard ±50 available ±10 ~ ±50
RoHS	compliant	
Contents Of Reel	3000 pcs	*Incl. tol. at 25°C, temp. range, Vdd and load change, aging

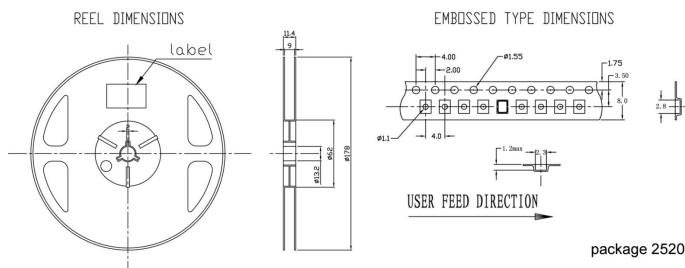
### Drawing (mm)



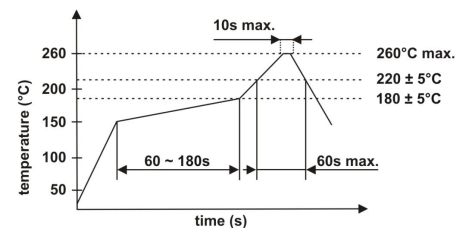
### Test Circuit/Waveform



### Tape dimension (mm)



### Soldering profile



### Order code

Part	Frequency	Type	Tolerance	Voltage	Temperature	Load	Tristate	Packaging
O	- 32.768000k	- AQO 2520	- 50	- 3.3	- A	-	- T	/ TR
O=Oscillator	k=kHz	AQO=Quartz oscillator AQO 2520=SMD 2.5x2.0	±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	Fn 1 connected	TR = tape + reeled