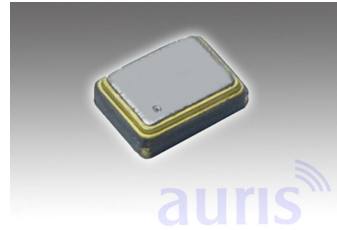


## Features AQO-Series

- Small size 2x1,6mm
- Good price/performance ratio
- Excellent for laptop and handheld PDA's
- Power down or standby available

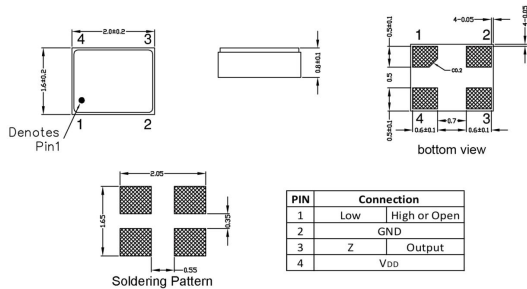


## AQO2016

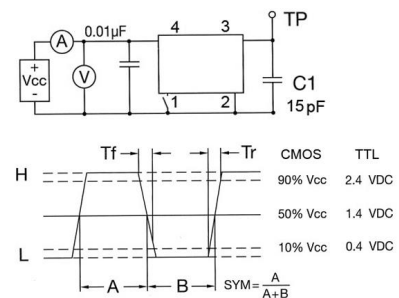
### Specification

Type	AQO2016 CMOS	Supply Current
Frequency Range	1,00MHz ~ 160,00MHz	1,00MHz ~ 19,99MHz = 5~7mA
Frequency Tolerance over all*	available $\pm 20 \sim \pm 100$ ppm	20,00MHz ~ 39,99MHz = 7~10mA
Power Supply (Vdd)	0,8 ~ 3,6V	40,00MHz ~ 60,00MHz = 10~15mA
Operating Temperature Range	0°C ~ +70°C, or order code	
Output Signal/Load	CMOS/15pF	
Output Symmetry	40/60% (45/55% optional)	
Output Voltage	90% of Vddmin. / 10% of Vdd max.	
Rise/Fall Time	10ns max. <8ns typical (10% to 90% Vdd)	Operating Temperature Range (ppm)
Start Up Time	10ms max. <4ms typical	-20°C ~ +70°C standard $\pm 50$ available $\pm 20 \sim \pm 100$
Aging	$\pm 5$ ppm/year max	-40°C ~ +85°C standard $\pm 50$ available $\pm 20 \sim \pm 100$
Storage Temperature	-55°C - +125°C	Extended temperature range up to +125°C on request
RoHS	compliant	
Contents Of Reel	3000 pcs	*Incl. tol. at 25°C, temp. range, change of Vdd and load change

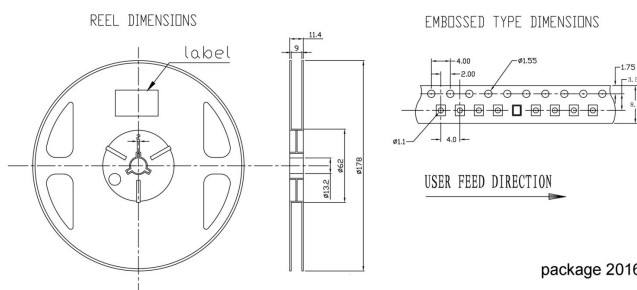
### Drawing (mm)



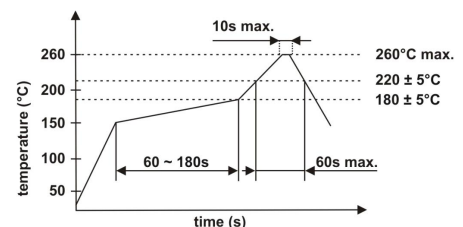
### Test Circuit/Waveform



### Tape dimension (mm)



### Soldering profile



### Order code

Part	Frequency	Type	Tolerance	Voltage	Temperature	Load	Tristate	Packaging
O	- 10.000000M	- AQO 2016	- 50	- 3.3	- A	-	- T	/ TR
O=Oscillator	M=MHz	AQO=Quartz oscillator AQO 2016=SMD 2.0x1.6	$\pm$ ppm	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	Pin 1 connected	TR = tape + reeled