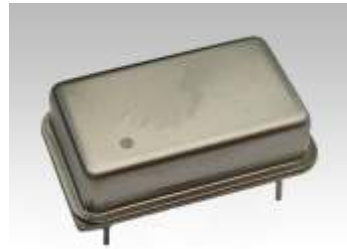


Oscillator THT, clock-type



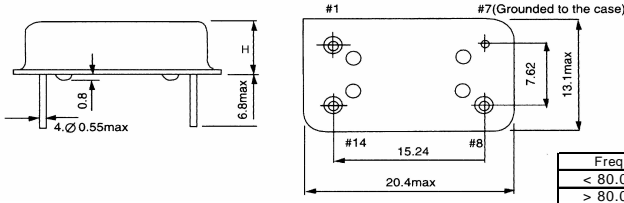
AQO 14

Features:

- Standard DIL14 package
- Low cost to performance
- Tolerance and stability to ± 25 ppm
- Tristate or power down available

Specifications					
		AQO 14			Remarks
Frequency range		1MHz ~ 160MHz			
Frequency stability *		± 25 ppm, ± 50 ppm or ± 100 ppm			
Operating temperature (std)		0°C ~ +70°C			Others are offered
Storage temperature		-40°C ~ +85°C			
Input	Voltage		3.3Vdc $\pm 10\%$	5Vdc $\pm 10\%$	Please specify
	Current	1.0000 ~ 20MHz	15 mA max	20 mA max	
		20.001 ~ 40MHz	25 mA max	30 mA max	
		40.001 ~ 80MHz	35 mA max	40 mA max	
		80.001 ~ 125MHz	45 mA max	50 mA max	
125.00 ~ 160MHz		75 mA max	80 mA max		
Output Symmetry	40% ~ 60% / 45%~55%(0.5Vdd)				
Output	Rise time	10ns			Max
	Fall time	10ns			Max
	Voltage V_{ol}	0.4Vdc max or 0.1Vdd max			
	Voltage V_{oh}	2.4Vdc min or 0.9Vdd min			
	Current I_{ol}	<25MHz, 16mA max or >25MHz, 8mA max			
Current I_{oh}	-4mA min or -8mA min				
Start-up time	10ms			Max	
Aging	± 5 ppm			At 25°C per year max	
Output waveform	CMOS/TTL compatible				
Shock	Random drop on hard wooden plate 3 times from a height of 50cm				

* Inclusive of initial frequency tolerance at 25°C, operating temperature range, supply voltage change, load variation and 1st year aging.

Drawing																	
AQO 14																	
	<table border="1"> <thead> <tr> <th>PIN</th> <th>Connection</th> </tr> </thead> <tbody> <tr> <td>#1</td> <td>NC/control</td> </tr> <tr> <td>#7</td> <td>GND</td> </tr> <tr> <td>#8</td> <td>Output</td> </tr> <tr> <td>#14</td> <td>+VDD</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Frequenz</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>< 80.0 MHz</td> <td>5.3 mm</td> </tr> <tr> <td>> 80.0 MHz</td> <td>7.7 mm</td> </tr> </tbody> </table>	PIN	Connection	#1	NC/control	#7	GND	#8	Output	#14	+VDD	Frequenz	H	< 80.0 MHz	5.3 mm	> 80.0 MHz	7.7 mm
PIN	Connection																
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Dimensions in mm																	

Order key								
O	- 10.000000M - AQO 14	- 50	- 5.0	- A	-	/ T	/	
Part	Frequency	Type/Package	Tolerance	Voltage	Temperature	Load	Option	Packaging
O=Oscillator	M=MHz	AQO=Quartz oscillator 14=DIL 14	\pm ppm	5.0=5.0Volt 3.3=3.3Volt 2.5=2.5Volt	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 J= 0°C ~ + 50°C K= -30°C ~ +75°C	blank = 15pF 3 = 30pF 5 = 50pF	T = Tristate P = Power down	blank = Tray