



Oven Controlled Crystal Oscillator (OCXO)



TCO - 6600 series

- Features : Small size and low power
- : Fast warm-up and high stability
- : SC-Cut Crystal unit



Specifications (characteristics)

Item	Symbol	Specifications		Remarks
		TCO-6602	TCO-6600	
Output frequency range	f_o	10 MHz to 40 MHz		Standard frequency
		32.768 MHz	38.4 MHz	
Supply voltage	V_{cc}	5.0 V \pm 0.25 V	3.3 V \pm 0.165 V	
Storage temperature range	T_{stg}	-20 °C to +80 °C		During transport only. Long term storage: Room Temperature.
Operating temperature range	T_{use}	-10 °C to +70 °C		
Frequency/temperature coefficient	f_o -Tc	$\pm 3 \times 10^{-8}$ Max.		-10 °C to +70 °C
Frequency/voltage coefficient	f_o -Vcc	$\pm 2 \times 10^{-9}$ Max. $V_{cc}=5.0 \text{ V} \pm 0.25 \text{ V}$	$\pm 2 \times 10^{-9}$ Max. $V_{cc}=3.3 \text{ V} \pm 0.165 \text{ V}$	
Frequency aging	f_{aging}	$\pm 1 \times 10^{-9}$ / day Max. $\pm 3 \times 10^{-8}$ / year Max.		
Warm-up	—	$\pm 1 \times 10^{-7}$ / 4 min Max.		+25 °C
Output load condition	Load_R	10 k Ω		
	Load_C	15 pF Max.		
Current consumption	Warm-up Steady state	600 mA Max.		at +25 °C
		300 mA Max.		
Frequency control range	f_{cont}	$\pm 1 \times 10^{-6}$ Min. $V_c = 2.5 \text{ V} \pm 2.5 \text{ V}$	$\pm 1 \times 10^{-6}$ Min. $V_c = 1.65 \text{ V} \pm 1.65 \text{ V}$	
Symmetry	SYM	45 % to 55 %		$(V_{OH} - V_{OL})/2$
High output voltage	V_{OH}	2.4 V Min.		$V_{cc}=5 \text{ V}:4 \text{ V level CMOS}$
Low output voltage	V_{OL}	0.4 V Max.		$V_{cc}=3.3 \text{ V}:2.8 \text{ V level CMOS}$
Output load condition	L_CMOS	10 k Ω // 15 pF		
Weight	—	40 g Max.		

External dimensions

(Unit:mm)

