



Oven Controlled Crystal Oscillator (OCXO)

TCO - 679 series

- Features : DIP-14pin package
- : Very fast warm-up
- : SC-Cut Crystal unit



Specifications (characteristics)

Item	Symbol	Specifications		Remarks
		TCO-679S1	TCO-679S2	
Output frequency range	f_o	10 MHz to 20 MHz		Standard frequency
		10 MHz,		
Supply voltage	V_{cc}	5 V \pm 0.25 V	12 V \pm 0.6 V	
Storage temperature range	T_{stg}	-20 °C to +80 °C		During transport only.
Operating temperature range	T_{use}	0 °C to +70 °C		Long term storage: Room Temperature.
Frequency/temperature coefficient	f_o -Tc	$\pm 1 \times 10^{-7}$ Max.		0 °C to +70 °C
Frequency/voltage coefficient	f_o -Vcc	$\pm 1 \times 10^{-7}$ Max. $V_{cc}=5 \text{ V} \pm 0.25 \text{ V}$	$\pm 1 \times 10^{-7}$ Max. $V_{cc}=12 \text{ V} \pm 0.6 \text{ V}$	
Frequency aging	f_{aging}	$\pm 5 \times 10^{-8}$ / day Max. $\pm 5 \times 10^{-7}$ / year Max.		
Warm-up	—	$\pm 5 \times 10^{-7}$ / 5 min Max.		at +25 °C
Current consumption	Warm-up	380 mA Max.	160 mA Max.	at +25 °C
	Steady state	160 mA Max.	70 mA Max.	
Frequency control range	f_{cont}	$\pm 5 \times 10^{-6}$ Min. $V_c=2.5 \text{ V} \pm 2.5 \text{ V}$	$\pm 5 \times 10^{-6}$ Min. $V_c=4.5 \text{ V} \pm 4.5 \text{ V}$	
Symmetry	SYM	45 % to 55 %		(V_{OH} - V_{OL})/2
High output voltage	V_{OH}	4.0 V Min.		5 V Level CMOS
Low output voltage	V_{OL}	0.5 V Max.		
Output load condition	L_CMOS	10 k Ω // 15 pF		
Weight	—	10 g Max.		

External dimensions

(Unit:mm)

