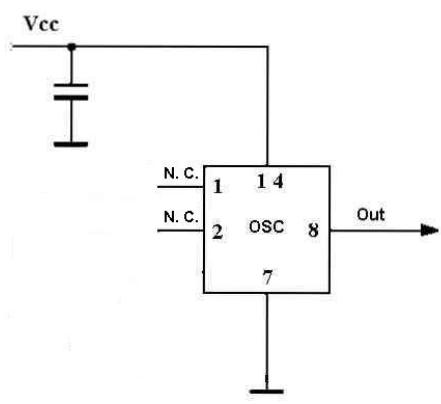


RoHS Compliant, DIP14 package.														
Temporary Code : ULN OCXO-100.000000							Rev. Preliminary 0.1							
#	Parameter	Symbol	Condition	Value			Unit							
				Min.	Typ.	Max.								
1.1	Nominal Frequency	f_0		100.000000			MHz							
1.2	Initial tolerance	$(f - f_0)/f_0$	at $+25^\circ\text{C}$, $V_c = V_{c0}$	-0.2		0.2	ppm							
RF output														
2.1	Wave form			HCMOS										
2.2	High -Voltage	V_H		2.4			V							
2.3	Low - Voltage	V_L				0.4	V							
	Load	R_L		10			kOhm							
		C_L				5	pF							
2.4	Duty Cycle			45	50	55	%							
2.5	Sub-harmonics			none										
Power supply														
3.1	Voltage	V_{cc}		3.15	3.3	3.45	V							
3.2	Warm-up current		$V_{cc}=3.3\text{V}$	120		190	mA							
3.3	Continuous current		at $+25^\circ\text{C}$, $V_{cc}=3.3\text{V}$			50	mA							
3.4	Warm-up time	t_{up}	to $\Delta f/f=1\text{e-}7$ at $+25^\circ\text{C}$ ref to 1hr frequency			120	sec.							
Frequency stability														
4.1	vs. temperature		ref 25°C			± 10	ppm							
4.2	vs. supply voltage		ref V_{cc} typ.			± 50	ppb							
5.1	SSB Phase noise		1 Hz		-70	-65	dBc/Hz							
			10 Hz		-105	-100								
			100 Hz		-135	-130								
			1 kHz		-160	-155								
			10 kHz		-168	-166								
			100 kHz		-171	-170								
6.1	Bandwidth Jitter	J_{BW}	12kHz - 20MHz		19	24	fs							
7.1	Aging per day		after 30 days of operation			± 5	ppb							
	per year					± 0.5	ppm							
Maximum ratings, environmental, mechanical conditions.														
Power voltage	-0.5 to 4.0 V													
Operating temperature range	0°C to $+50^\circ\text{C}$													
Storage temperature range	-60°C to $+90^\circ\text{C}$													
Humidity	Non-condensing 95%													
Soldering Conditions	260°C 10s													

Schematic connections



Physical dimensions

