

OCXO oscillator specification

Document ref. XO00894M-ELPROMA for NTS-3000/4000/5000 models

Parameters description	Units	
Frequency	MHz	10.0
Oscillator type		OCXO
Supply Voltage	V	5
	+/-%	5
Operating temperature range	C	-30...+60
Frequency stability vs. operating temperature range	+/-10 ⁻⁹	<5.0
Short term stability, typical	per 1 sec, 10 ⁻¹¹	<1.0
Average aging	per day, +/-10 ⁻¹⁰	<5.0
	per year, +/-10 ⁻⁸	<5.0
Output signal		HCMOS
Level	"0"	<0.5 V
	"1"	>4.0 V
Load	Ohm/pF	10/30
Frequency stability vs. voltage supply change	+/-, 10 ⁻¹⁰	<5.0
	+/-, %	5
Steady state current consumption (still air) at Temperature	mA	<400
	C	+25
Peak power consumption after switch-on	mA	<1000
Warm-up time @ +25 °C with accuracy of <+/-2x10 ⁻⁸	min	<3.0
Phase noise, typical		
@ 1 Hz	dBc/Hz	<-90
@ 10 Hz	dBc/Hz	<-120
@ 100 Hz	dBc/Hz	<-135
@ 1 kHz	dBc/Hz	<-145
@ 10 kHz	dBc/Hz	<-150
Frequency pulling range	+/-, 10 ⁻⁷	>4.0
Reference voltage	V	+4.5
Control voltage range	V	0...+4.5
Case dimensions	mm, max	36.1x27.2x16
Storage temperature range	C	-55...+90
Shock		
Acceleration	g	100
Duration	ms	3.0 +/-1.0
Vibrations with frequency range	Hz	10-500
Acceleration	g	10

Revision #	Contents	Date	Approved by
-	Original version of the specification	21/03/08	AGN , TW

