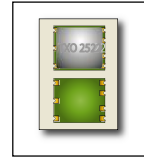


# TXO 2522

## Oven Controlled Crystal Oscillator



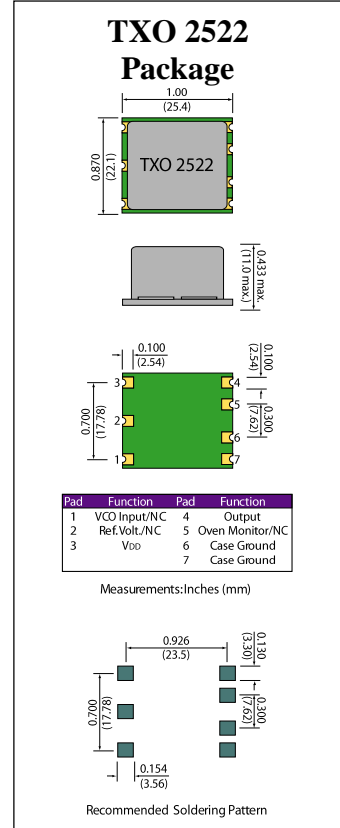
### FEATURES:

SC or AT Cut

25.4 x 22.1 x 11.0 mm

Parameter	Unit	Min.	Max.
Frequency <sup>(1)</sup>	MHz	5	40
Operating Temperature Range	°C	See Table	
Frequency Stability			
at 25°C	ppb	-10	+10
vs. Temp. Range	ppb	See Table	
vs. Voltage	ppb	-0.5	+0.5
vs. Warm-up <sup>(2)</sup>	ppb	-10	+10
Aging			
Daily	ppb	-0.5	+0.5
Yearly	ppb	-50	+50
10 Years	ppm	-0.3	0.3
Output			
Voltage	V	3.3 ±5%	
Waveform		CMOS	
Level		1= 2.8	0= 0.4
Load	pF	15	
Duty Cycle	%	45	55
Spurious	dBc	-	-60
Input Power			
Current	mA	-	1000
Steady State @ 25°C	W	-	0.8
Phase Noise			
@ 10MHz	@ 10 Hz	dBc/Hz	-115
	@ 100 Hz	dBc/Hz	-130
	@ 1 kHz	dBc/Hz	-140
	@ 10 kHz	dBc/Hz	-150
Frequency Adjustment			
Range	±ppm	5	-5
Control	V	0.0	2.8
Slope		Positive	
Input Impedance	kOhms	100	-
Reference Voltage	V	2.8 ±0.1	
Reference Voltage Load	kOhms	9	-
Temperature Stability	V	-0.1	0.1

(1) Typical Frequencies are 10, 12.8, 15.36, 16.384, 19.2, 20, and 25MHz.  
 (2) Warm-up in 2 minutes @ 25°C reference to 1 hours



### Frequency Stability vs. Temperature Range

Temperature	Stability (ppb)
0 to +70°C	±5, ±10, ±20
-30 to +70°C	±10 ±20
-40 to +85°C	±10, ±20

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Example Part Number: TXO2522-A-50-A-27-10M000

