


Pletronics

32.768KHz Selection Guide

RoHS 6/6 Compliant

32.768 KHz OSCILLATORS

Package	Series	Features	Package Size
	FD51	<ul style="list-style-type: none"> Exceptionally fast start-up < 1mS VCXO version available Low profile 1.8V, 2.5V, or 3.3V LVCMOS AT Cut Crystal Used 	5 x 3.2 x 1.3h mm

FD51 Part Number Builder

Model: **FD51 45 T L E - 32.768K**

Frequency Stability

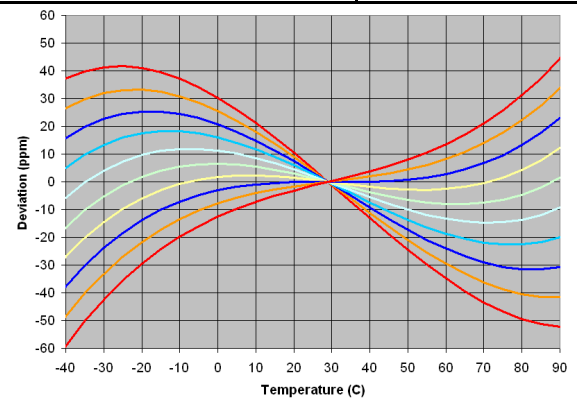
- 99 = VCXO ± 100 PPM
- 75 = VCXO ± 75 PPM
- 50 = VCXO ± 50 PPM
- 45 = ± 50 PPM
- 44 = ± 25 PPM
- 20 = ± 20 PPM
- 15 = ± 15 PPM
- 10 = ± 10 PPM

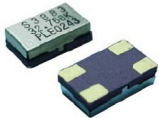
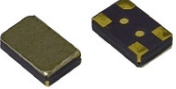
Frequency in KHz
E - 32.768K

Standard Temperature Ranges
Blank = -20 to +70°C
E = -40 to +85°C



Outputs
L = Vdd and Vddout of 1.8 volts & high output drive
Blank = Vddout of 1.8, 2.5 & 3.3 volts, Vdd of 1.8 V

Frequency of AT Cut Crystal used in FD51 versus Temperature Response

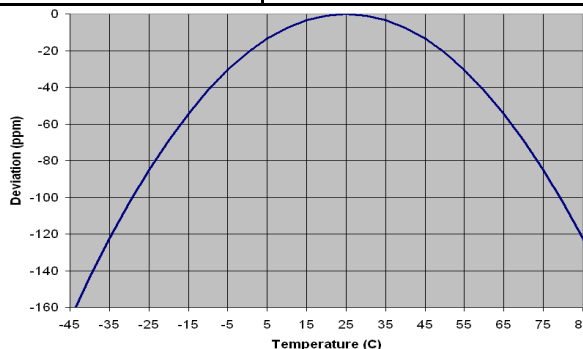


	S3883	<ul style="list-style-type: none"> Fast start-up time of 500mS or less 1.5V to +5.0V Operating temp range: -10 to +60°C Extended temp avail (-40 to +85°C) Order as S3883E 	<ul style="list-style-type: none"> Enable/Disable function on pad 1 with low power consumption Watch Crystal (Tuning fork crystal, XY cut) used 	4 x 6.5 x 1.8h mm
	S3881	<ul style="list-style-type: none"> Start-up time of 3 seconds or less 1.3 to 5.5V Operating temp range: -40 to +85°C 	<ul style="list-style-type: none"> Low Profile Watch Crystal used (Tuning fork crystal, XY cut) 	2.5 x 4 x 1h mm

32.768 KHz CRYSTALS

	SM20S	<ul style="list-style-type: none"> 4 pad plastic SMD Operating temp range: -40 to +85°C 	<ul style="list-style-type: none"> Watch Crystal used 12.5pF load capacitance Freq vs Temp performance below 	3.8 x 8.5 x 2.5h mm
	SM8S	<ul style="list-style-type: none"> 2 pad ceramic SMD Operating temp range: -40 to +85°C 	<ul style="list-style-type: none"> Watch Crystal used 12.5pF load capacitance Freq vs Temp performance below 	1.5 x 3.2 x 1h mm

Watch Crystal Frequency versus Temperature (Typical Performance):



- Full spec sheets are available on the website.
- Additional options and package sizes are available and shown on our website.