



CONSUMER & INDUSTRIAL 20 X 20 mm XO

Description

In a package 20 x 20 x 10 mm, our QEN 51-AO is a sinewave clock oscillator that is designed for industrial temperature range -40° C to +85° C with a sinusoidal output. It allows an upper frequency of 300 MHz by using an overtone crystal resonator in an encapsulated package. This type of product is well suited for very low phase noise applications (typically -120 dBc/Hz @ 100 Hz and typically -150 dBc/Hz @ 10 kHz for F = 240 MHz).



Frequency range

1 MHz to 300 MHz

Applications

Test equipment
SONET/SDH

Features

Temperature ranges:	up to -40° C to +85° C
Frequency stability:	±15 to ±100 ppm
Supply voltage:	+5 V
Current consumption:	10 to 50 mA
Output / Load:	0 dBm / 50 Ω
Phase noise:	10 Hz -100 dBc/Hz
@240 MHz	100 Hz -120 dBc/Hz
	1 kHz -140 dBc/Hz
	10 kHz -150 dBc/Hz

Ageing (45°C/1st year): ≤ ± 5 ppm

Minimum ordering information requirement

(See [page 3-18](#) for package drawing)

Example: QEN 51 - AO 240 MHz DT50

Temperature range _____

LQ = 0° C ~ +70° C

DT = -40° C ~ +85° C

Thermal stability _____

± 15 ppm

± 25 ppm

± 50 ppm

± 100 ppm

Note:

- Options with the same marker may not be combined with each other.
- Frequency stability inclusive of 25° C calibration, temperature, Vcc and load change.

