



INDUSTRIAL & MILITARY DIL XO

Description

To complete our standard QEN 14-H and QEN 4-H, we propose our QEN 49/55-DH that uses an Ag/Pd hybrid circuit board and a crystal resonator mounted on 3 points in a DIL 14. These low cost oscillators are designed for high vibration resistance clock oscillator and extended temperature range up to -55° C to +125° C. The QEN 55-DH utilizes HCMOS active circuit technology up to 100 MHz. The same performances are presented for higher environmental severity in a 14 pins DIL package under the designation QEN 49-DH. The tristate output is ideal for automated test or frequency switching applications.



Frequency range

1 MHz to 100 MHz

Applications

Airborne indoor applications
 Railroad security equipment
 Every outdoor electronics

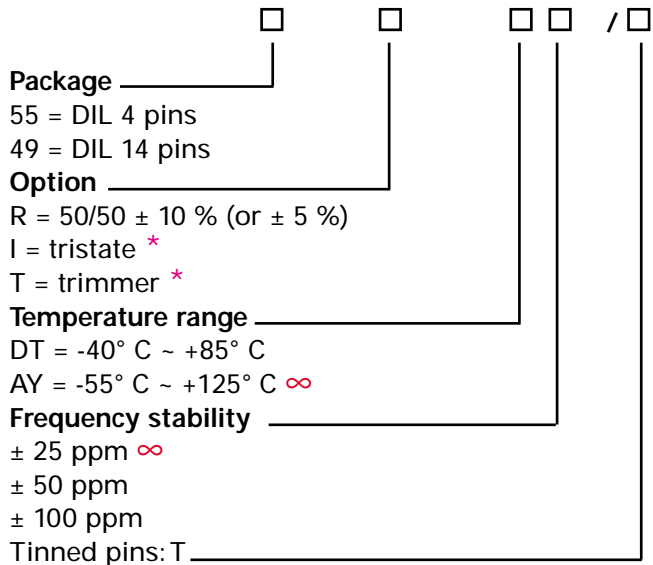
Features

Temperature ranges: up to -55° C to +125° C
 Frequency stability: ±25 to ±100 ppm
 Supply voltage: +5 V
 Current consumption: 10 to 30 mA
 Load: 15 pF-25pF/2-6TTL-gates
 Option duty cycle: Up to 14 MHz 50/50 ± 5%
 From 14 MHz 50/50 ± 10%
 Option: Enable/Disable
 Option :external trimmer 3 to 20 pF
 up to 33 MHz on pin 1

Ageing (45°C/1st year) : ≤ ± 5 ppm

Minimum ordering information requirement
 (See [Table 1](#) for available combinations)
 (See [page 3-19](#) for package drawing)

Example: QEN 55 - DHR 16 MHz AY50 / T



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.

*Table 1:
 Other temperature ranges
 and stability available*

	QEN 49/55-DH	Option Enable/disable on pin 1
1 MHz - 14 MHz	2TTL-gates/15 pF 10 ns	"0" on pin 1 =High Z on pin 3 "1" on pin 1 =enable on pin 3
14 MHz - 100 MHz	6 TTL-gates/25 pF 5 ns	Attention: should pin 1 not be used, please always tie to Vcc