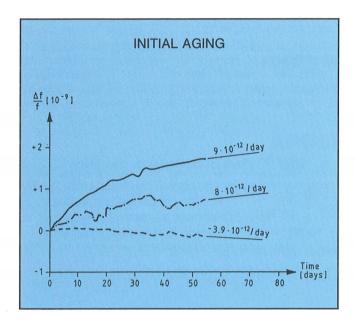
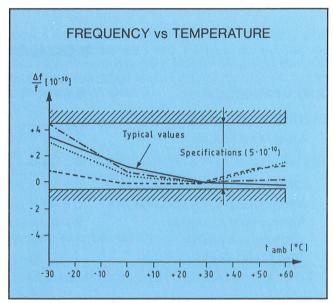
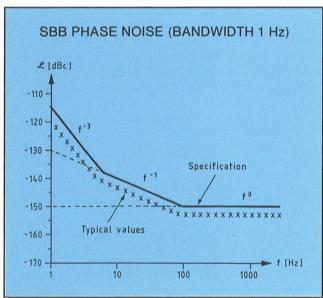
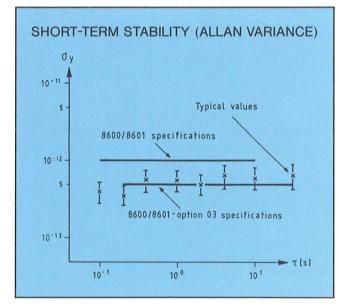
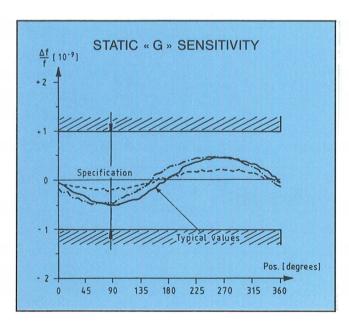
TECHNICAL INFORMATIONS

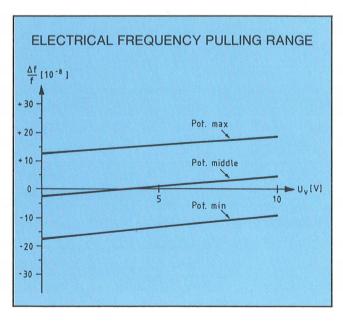












TECHNICAL SPECIFICATIONS

unless otherwise noted, at 25 °C and 24 V DC

MODELS 8600 / 8601

OUTPUT FREQUENCY:

5 MHz

FREQUENCY STABILITY

Long-term (ageing):

 2×10^{-11} / day 5×10^{-10} / month

after 90 days of continuous operation

5 × 10⁻⁹/year

Over temperature range:

 $5 \times 10^{-10} (-30 \text{ to } +60 ^{\circ} \text{ C})$

Versus supply voltage changes:

 $5\times10^{-11}~(+\,24~VDC~\pm~10~\%)$

Versus load changes: Static g-sensitivity: $2 \times 10^{-11} \ (50 \ \Omega \ \pm \ 10 \ \%)$

Short-term $\sigma(\tau)$:

 $< 1 \times 10^{-9}$ /g (typically 5×10^{-10} /g) $\le 1 \times 10^{-12}$ (typical 5×10^{-13}) for T = 0.1 to 10 s

Phase noise spectral density:

see drawing below

WARM-UP

at 25° C ambient temperature

and with +24 VDC:

 $\sim 1 \times 10^{-8}$, 120 min. after switch-on

FREQUENCY ADJUSTMENT, coarse:

by externally accessible 22 turns built-in potentiometer, range

 $\geq 2 \times 10^{-7}$ with external control voltage of 4 V

fine:

by external control voltage of 0 to + 10 VDC, range $> 4 \times 10^{-8}$ with

built-in potentiometer centered for nominal frequency at 4 V

POWER SUPPLY REQUIREMENTS

Input voltage:

+24 VDC \pm 10 % (operating 20 to 32 V)

Power consumption:

11 W during warm-up 4.5 W after warm-up

OUTPUT CHARACTERISTICS:

2 outputs with each 0.5 V_{RMS} into 50 Ω (short-circuit protected)

Wave form:

sine

Source impedance:

50 Ω

Harmonic distortion:

harmonics suppressed by more than 40 dB (typ. 50 dB)

ENVIRONMENTAL

Operating temperature range:

-30 to +60° C

Storage temperature range:

-30 to +85° C

Vibration:

1.5 to 0.5 mm p-p 8 to 50 Hz (MIL STD 167-1)

Shocks:

according to

-IEC 68-2-27 or to

NFC 20-608 severity 30A

(30 G / 11 ms, 3 shocks in each direction of the main axis)

WEIGHT:

850 g

SIZE:

see drawings

MODELS 8600 / 8601 OPTION 03

Same specifications as for models 8600 and 8601, except for short-term stability

 $\sigma_{\tau} = 6.5 \times 10^{-13}$ for τ of 0.2 to 30 s