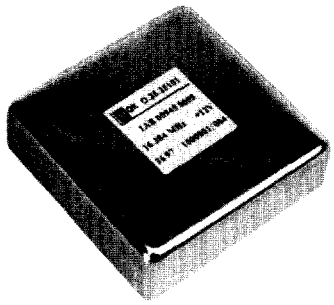
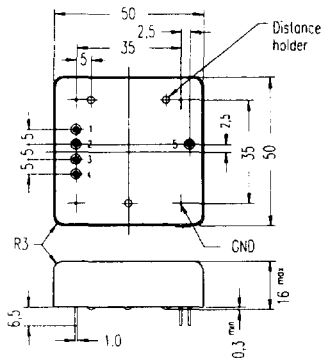
Low Profile High Stability OCXOs

Series 2500



FEATURES

- **Low profile** **14 mm**
  -Temperature stability **to ≤ ± 1 x 10^{-7}**
  (-20 to +70°C)
- **Package height** **< 25 mm**
  -Temperature stability **to ≤ ± 4 x 10^{-6}**
  (-20 to +70°C)
- **Frequency range** **2 to 1200 MHz**
- **AT, SC, cut**



Note: Dimensions in mm

SPECIFICATIONS

Model Variation by suffix

A standard (min. height)
B *long term stability*
E short term stability
D standard (high stability)
C *tuning range*
F high frequency

Selection guide

All specifications are guaranteed data

	Low Profile High Stable Oven Controlled Crystal Oscillator Series 2500						
	A	**B**	**C**	**D**	**E**	**F**	Options
Long term stability per year	$<1*10^{-7}$	$<5*10^{-8}$	$<3*10^{-7}$	$<3*10^{-8}$	$<3*10^{-8}$	$<5*10^{-7}$	
Short term stab. Allan var. for Tau = 1 sec.	$<5*10^{-11}$	$<3*10^{-11}$	$<1*10^{-10}$	$<1*10^{-11}$	$<3*10^{-12}$	$<1*10^{-9}$	
Frequency stability versus:							
– operating temperature range	$<\pm1*10^{-7}$	$<\pm5*10^{-8}$	$<\pm1*10^{-7}$	$<\pm4*10^{-9}$	$<\pm5*10^{-9}$	$<\pm1*10^{-7}$	
– load variation +/- 5%	$<\pm5*10^{-9}$	$<\pm5*10^{-10}$	$<\pm5*10^{-9}$	$<\pm5*10^{-10}$	$<\pm5*10^{-10}$	$<\pm5*10^{-9}$	
– supply voltage variation +/- 5%	$<\pm5*10^{-9}$	$<\pm5*10^{-10}$	$<\pm5*10^{-9}$	$<\pm5*10^{-10}$	$<\pm5*10^{-10}$	$<\pm5*10^{-9}$	
Operating temperature °C	-10 to +70	-25 to +65	-10 to +70	-20 to +70	0 to +60	0 to +60	-40 to +75°C
Frequency adjustment:							
– electronical	$>\pm1*10^{-6}$	$>\pm5*10^{-7}$	$>\pm1*10^{-5}$	$>\pm1*10^{-6}$	$>\pm5*10^{-7}$	$>\pm1*10^{-6}$	
– linearity error %							
– mechanical	$>\pm1*10^{-6}$	$>\pm5*10^{-7}$				$>\pm1*10^{-5}$	
Supply voltage V	+12	+12	+12	+12	+12	+12	+5, +24
Current consumpt. operating 25°C mA	<150	<130	<140	<140	<150	<220	
Current consumpt. warm up mA	<650	<250	<250	<400	<700	<400	
Output signal	HCMOS	TTL/CMOS	TTL/CMOS	A/HCMOS	sine	sine	sine TTL/A/HCMOS
Spurious / Subharmonics attenuation dB	80	80	80	80	80	40	
Phase noise £(f) at 10 Hz/ 10 kHz $^{dBc}/_{Hz}$	-110/-140	-115/-140	-105/-140	-120/-155	-125/-160	-90/-140	
Pin out	A,B	C	A,B	F,G	F,G	D,E	
Package height mm	14	15,5	14	25,4	25.4	50	
Preferred frequency MHz	10.000	10.000 10.000	10.000 16.384	8.192 10.000	8.192 10.000	50 to 1200	2MHz to 1200MHz