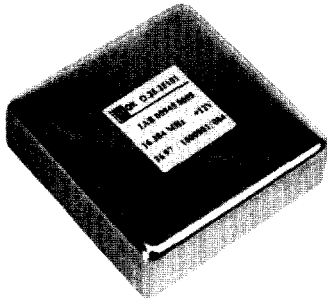


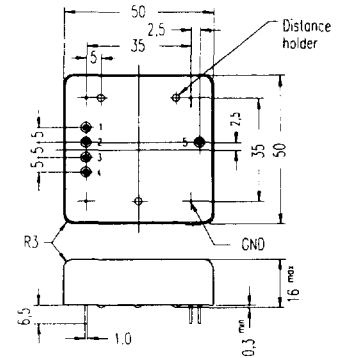
# Low Profile High Stability OCXOs

## Series 2500



### FEATURES

- **Low profile** 14 mm
- **Temperature stability** to  $\leq \pm 1 \times 10^{-7}$   
(-20 to +70°C)
- **Package height** < 25 mm
- **Temperature stability** to  $\leq \pm 4 \times 10^{-8}$   
(-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) **D** standard (high stability)  
**B** long term stability **C** tuning range  
**E** short term stability **F** high frequency

### Selection guide

All specifications are guaranteed data

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