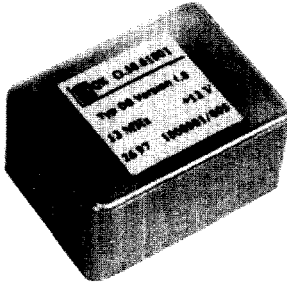


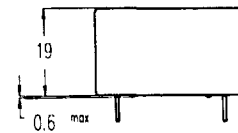
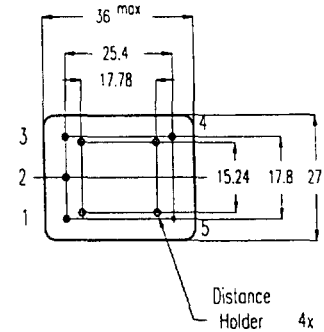
Miniature OCXOs

Series 3000



FEATURES

- Mini OCXO
- Standard package
- Excellent price/performance value
- Low aging rate to $\leq 3 \times 10^{-6}$ /year
- Temperature stability to $\leq \pm 2 \times 10^{-6}$ (-20 to +70°C)



Note: Dimensions in mm

SPECIFICATIONS

Model Variation by suffix **A** standard **B** long term stability **C** short term stability
D tuning range **E** mech. adjustment

Selection guide

All specifications are guaranteed data

Miniature Oven Controlled Crystal Oscillators Series 3000						
	A	B	C	D	E	Options
Long term stability per year	$<1.5 \times 10^{-7}$	$<3 \times 10^{-8}$	$<1 \times 10^{-7}$	$<3 \times 10^{-7}$	$<2 \times 10^{-7}$	
Short term stab. Allan var. for Tau = 1 sec.	$<5 \times 10^{-11}$	$<1 \times 10^{-11}$	$<5 \times 10^{-12}$	$<1 \times 10^{-10}$	$<5 \times 10^{-11}$	
Frequency stability versus:						
- operating temperature range	$<\pm 1 \times 10^{-7}$	$<\pm 2 \times 10^{-8}$	$<\pm 2 \times 10^{-8}$	$<\pm 1 \times 10^{-7}$	$<\pm 5 \times 10^{-8}$	
- load variation +/- 5%	$<\pm 5 \times 10^{-9}$	$<\pm 1 \times 10^{-9}$	$<\pm 1 \times 10^{-9}$	$<\pm 1 \times 10^{-9}$	$<\pm 5 \times 10^{-9}$	
- supply voltage variation +/- 5%	$<\pm 3 \times 10^{-9}$	$<\pm 2 \times 10^{-9}$	$<\pm 2 \times 10^{-9}$	$<\pm 5 \times 10^{-9}$	$<\pm 3 \times 10^{-9}$	
Operating temperature °C	0 to 70	0 to 70	0 to 70	0 to 70	-25 to +8	-40 to +85
Frequency adjustment:						
- electrical	$>\pm 3 \times 10^{-6}$	$>\pm 2 \times 10^{-6}$	$>\pm 1 \times 10^{-6}$	$>\pm 1 \times 10^{-5}$	$>\pm 1 \times 10^{-7}$	
- linearity error %	10			5		
- mechanical with ext. potentiometer 10k	$>\pm 3 \times 10^{-6}$	$>\pm 2 \times 10^{-6}$	$>\pm 1 \times 10^{-6}$	$>\pm 1 \times 10^{-5}$	$>\pm 2 \times 10^{-6}$	
Supply voltage V	+12	+12	+12	+12	+10.5	+5V; +10V; +15V
Current consumpt. operating 25°C mA	<80	<80	<80	<80	<140	
Current consumpt. warm up mA	<180	<180	<180	<180	<350	>180 mA for faster warm up
Output signal	HCMOS	HCMOS	HCMOS	HCMOS	open coll.	Sine:TTL
Spurious / Subharmonics attenuation dB	>80	>80	>80	>80	>80	
Phase noise $\mathcal{L}(f)$ at 10 Hz/ 10 kHz dBc/Hz	-110/-140	-110/-140	-120/-150	-100/-140	-110/-140	
Pin out 30 to	A,B	A,B	A,B	A,B,D	C	
Preferred frequency MHz	5.000 10.000 13.000 16.384	5.000 10.000 13.000 26.000	10.000 13.000	16.384 20.480 24.576	6.400 10.000 13.000	4 to 30MHz