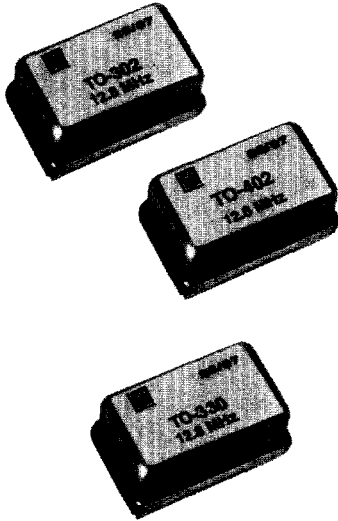


# High Stability TCXOs

TO-300  
TO-400  
TO-330



## Features

### TO-300

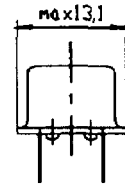
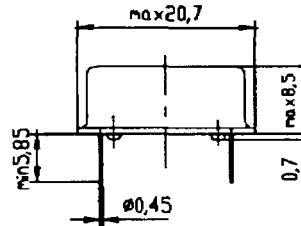
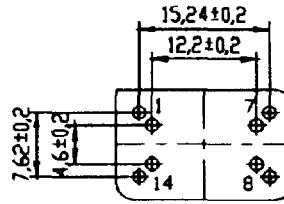
- DIL-14 standard TCXO series
- 10 to 40MHz
- -20 to +70°C
- Sinewave output

### TO-400

- DIL-14 standard TCXO series
- 2.0 to 40MHz
- -20 to +70°C
- HCMOS output

### TO-330

- DIL-14 standard TCXO
- 1.0 to 26MHz
- -20 to +70°C
- LV-HCMOS output
- 3.3 V



Note: Dimensions in mm

## SPECIFICATIONS

Type:	TO-301/401	TO-302/402	TO-311/411	TO-312/412	TO-330
Frequency range:	TO-300 Series 10.00 to 40.00 MHz		TO-400 Series 2.00 to 40.00 MHz		1.0 to 26MHz
Nominal frequency tolerance:	<±3 ppm		<±3 ppm U <sub>c</sub> =2.5V		<±2 ppm
Stability in the temperature range -20°C to +70°C:	<±1ppm	<±2ppm	<±1ppm	<±2ppm	<±1ppm
Frequency stability vs. supply changes U <sub>B</sub> ± 5%: vs. load changes ± 5%:	<±1ppm <±1ppm				<±0.1ppm <±1ppm
Aging @ 25°C:	±2 ppm first/±1 ppm following years				
Frequency correction:	±5 ppm by int. trimmer		±8 ppm by ext. voltage 0.5 to 4.5 V		<±25ppm
Transfer function/Linearity:	-		positive		0v to 3.0V; positive
Supply voltage U <sub>s</sub> :	5 V ±5%				2.7 to 5.5V
Current consumption:	TO-300 Series = ≤5 mA		TO-400 Series = <20 mA		≤6 mA
Output voltage:	TO-300 Series Sinusoidal 560 Ohm > 500 mVpp		TO-400 Series HCMOS; Low <0.4V; High >4.0V 1kOhm // 15pF 50% / ±10% 10 ns		LV-HCMOS; High > 2.0V 1kOhm // 15pF 40/60% <5 ns
Phase noise: dBc/Hz, typical 100 Hz 1000 Hz			-105 dBc -120 dBc		-90dBc -110dBc
Operating Temperature range:	-20°C to +70°C				
Operable Temperature range:	-25°C to + 75°C				
Storage Temperature range:	-40°C to + 85°C				