

TCXO, VC-TCXO

TCO-980-987 Series

Features

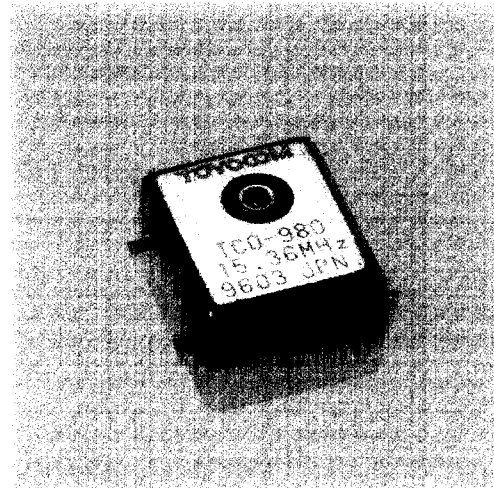
- High-reliable miniaturized package (11.4 × 9.6 × 3.5mm height Max)
- Surface mountable
- Low SSB phase noise

Specifications

Type	TCXO		VC-TCXO	
	TCO-980, 981	TCO-982, 983	TCO-986, 987	TCO-986, 987
Frequency	12.8MHz, 13MHz, 14.4MHz, 15.36MHz, 16.8MHz, 19.44MHz, 19.68MHz			
Supply voltage	+3V ±5%			
Current drain	2mA Max			
Output level	0.8Vp-p Min (Load:10kΩ // 10pF)			
Stability vs Temperature	±2.5ppm Max / -30°C to +75°C (referenced to +25°C)			
Stability vs Supply voltage	±0.3ppm Max / +3V ±5%			
Stability vs Load	±0.2ppm Max / (10kΩ ±1kΩ // 10pF ±1pF)			
Aging	±1ppm Max / year			
Frequency tolerance	±0.5ppm Max	±2.5ppm Max	±0.5ppm Max	±0.5ppm Max
Frequency control range	Nothing	±5.0ppm Min / +1.5V ±1.0V		

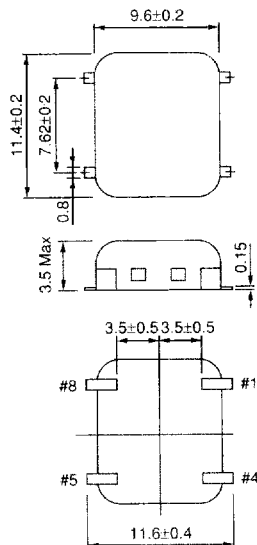
Note 1: TCO-982, 983 Type (without trimmer capacitors)

Note 2: Supply voltage is available from 3V to 5V



PACKAGE OUTLINES [Dimensions in mm]

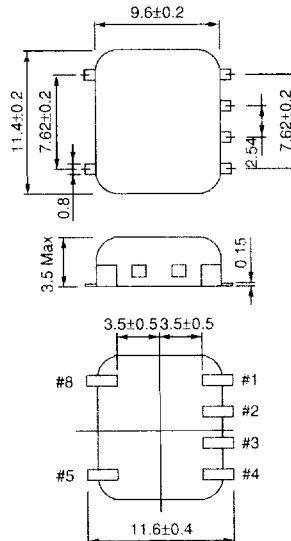
[TCO-980, 982, 986]



Pin connections

1	Output
4	Vcc
5	Vcont or NC
8	GND

[TCO-981, 983, 987]



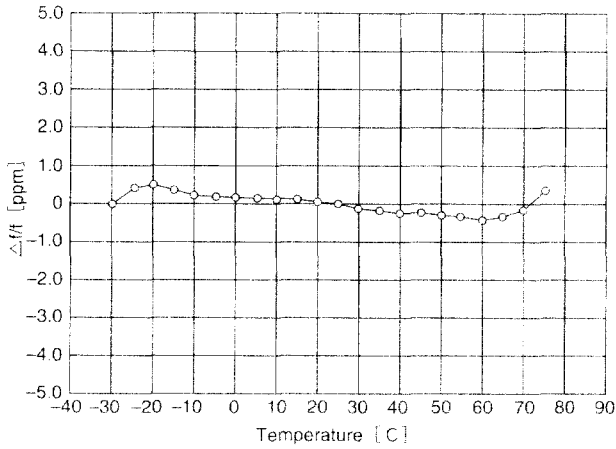
Pin connections

1	Output
2, 5, 8	GND/case
3	Vcont or NC
4	Vcc

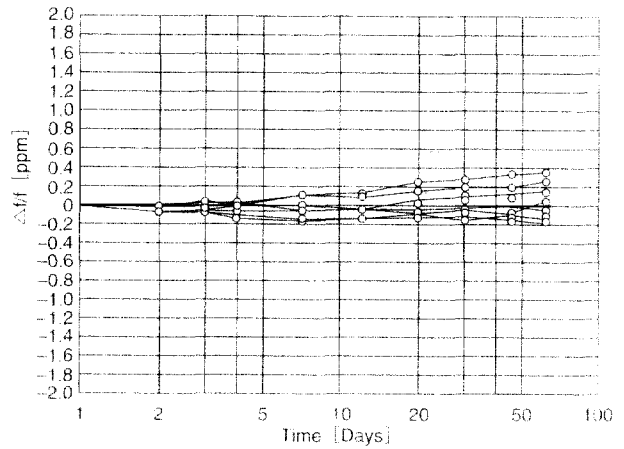
Electrical Data

TCO-987

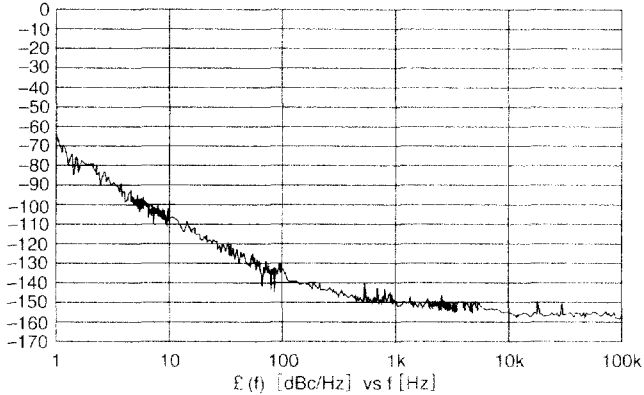
12.8MHz Frequency stability vs. temperature



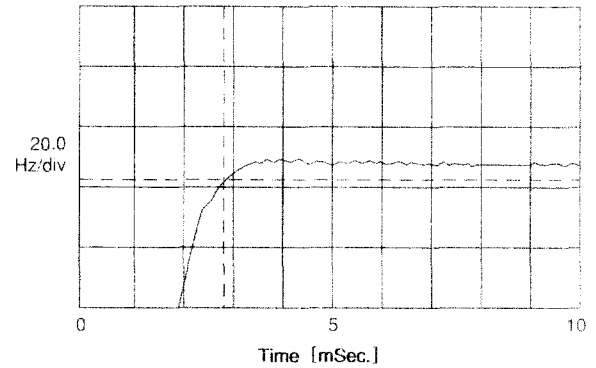
12.8MHz Accelerated aging characteristics at +85°C



TCO-987 12.8MHz SSB phase noise

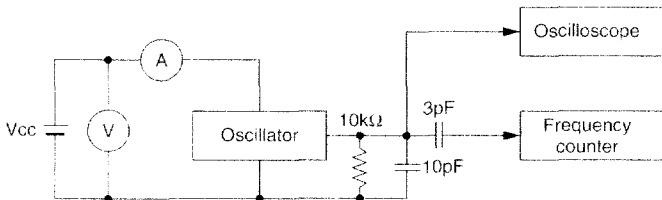


12.8MHz Rising time



Test Circuit

TCO-980/981



TCO-986/987

