

400 Series TCXO

Description

If your system requires uncompromising phase noise performance, MTI's 400 Series temperature compensated crystal oscillators (TCXO) deliver. The 400 Series phase noise performance rivals many AT cut OCXOs at a fraction of the cost. MTI offers a large number of choices for specifying thermal stability, temperature range, supply voltage, and output.

Frequency Range

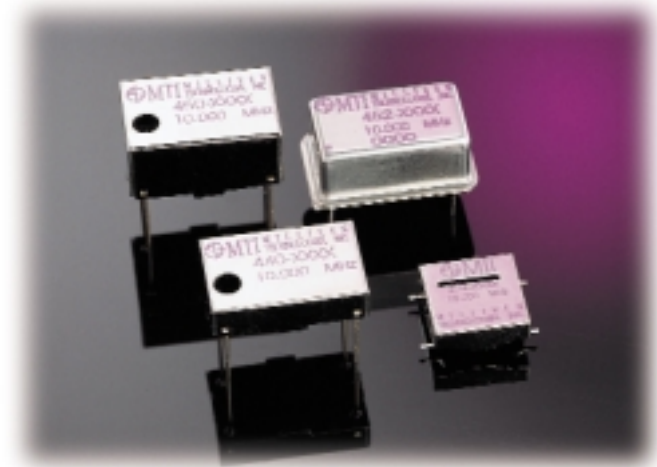
- 64 KHz to 60 MHz

Applications

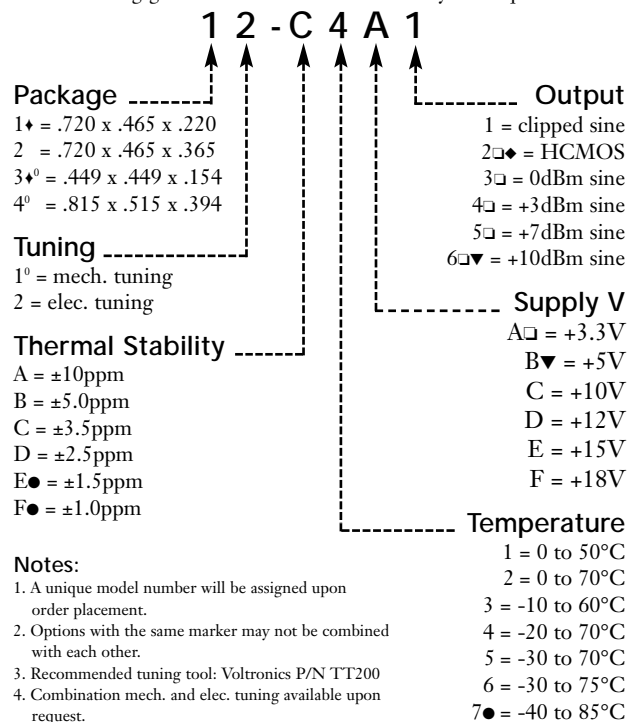
- STRATUM IV
- Mobile Radios
- PCS Systems
- Home Meter Reading

Typical Performance

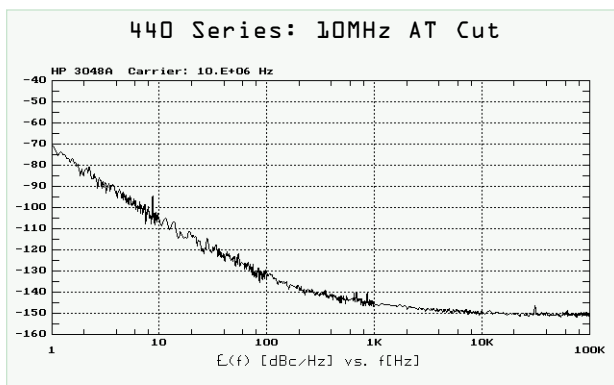
| | |
|------------------------------------------------|---------------------|
| Frequency Stability vs. Supply V ($\pm 5\%$) | ± 0.4 ppm |
| Frequency Stability vs. Load ($\pm 5\%$) | ± 0.4 ppm |
| Aging | ± 1 ppm/year |
| Power Consumption | 30mW (clipped sine) |
| Phase Noise 1Hz | -55dBc |
| @ 1 Hz BW 10Hz | -85dBc |
| 100Hz | -115dBc |
| 1KHz | -130dBc |
| 10KHz | -140dBc |
| 100KHz | -140dBc |
| Tuning Slope | Positive |
| Mechanical Tuning | ± 3 ppm |
| Electrical Tuning | ± 3 ppm |



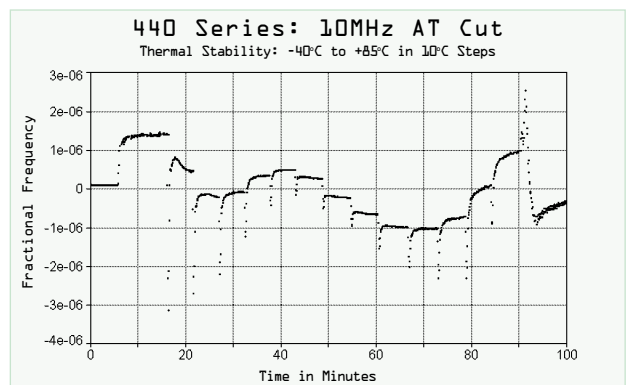
The following guide can be used to determine your requirements.



Phase Noise

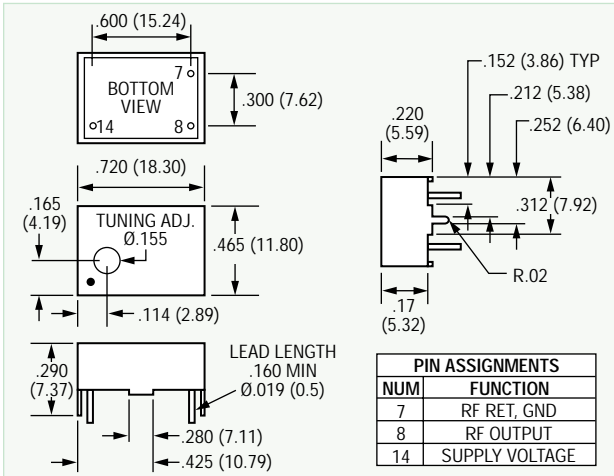


Thermal Stability

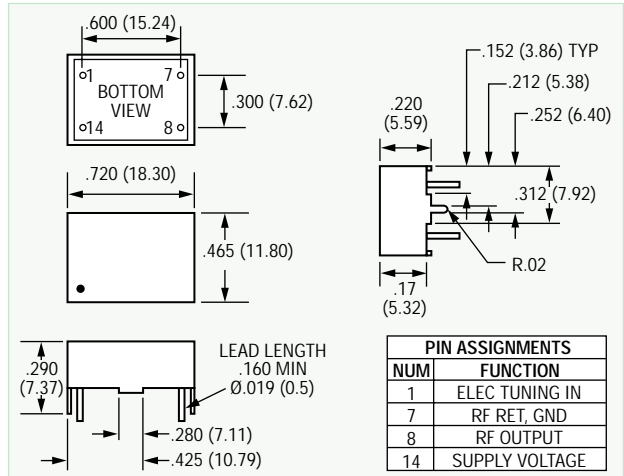




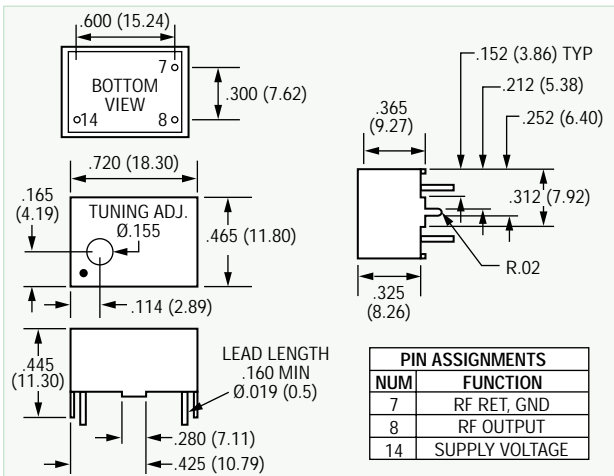
440 Interface Control Drawing (Package 1)



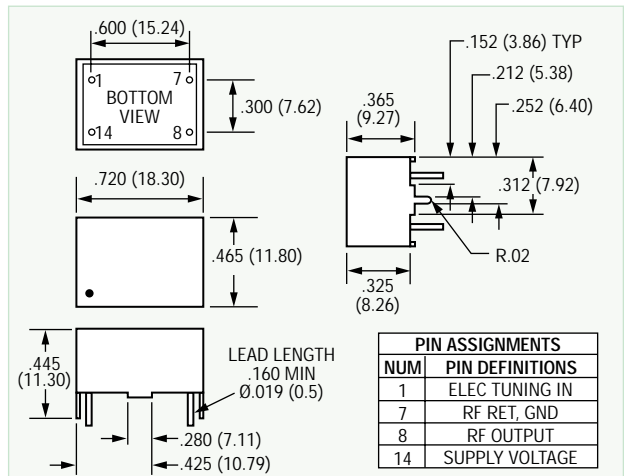
443 Interface Control Drawing (Package 1)



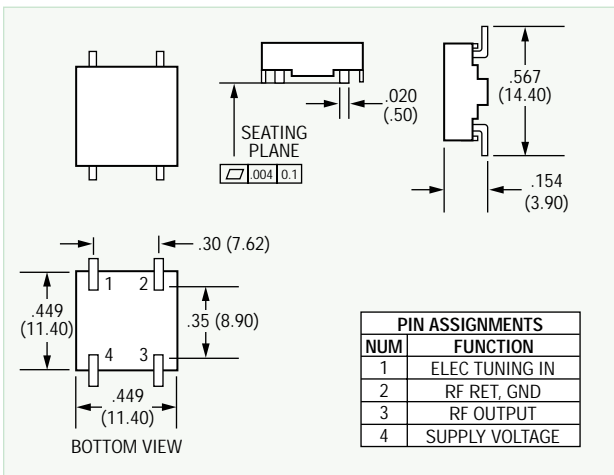
450 Interface Control Drawing (Package 2)



453 Interface Control Drawing (Package 2)



474 Interface Control Drawing (Package 3)



452 Interface Control Drawing (Package 4)

