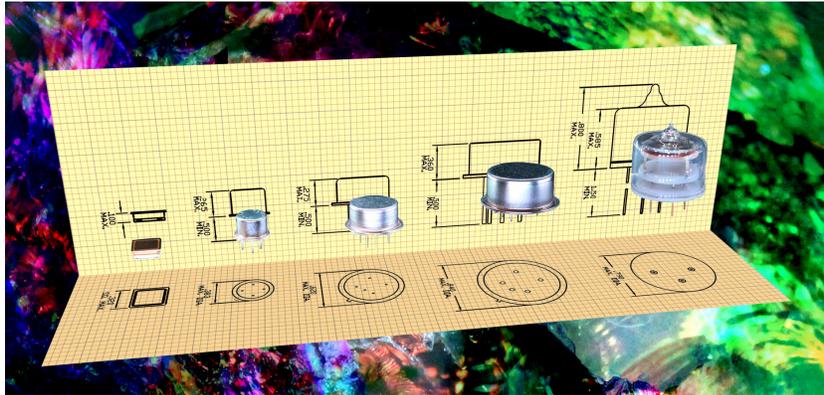


Bliley Space Level Quartz Crystals



Bliley Technologies has been manufacturing Quartz Crystal Resonators since 1930. Our history of Space, Defense and Commercial has a deep history of supporting Programs World-Wide.

Starting in the 1960's, Bliley began manufacturing Space level Quartz Crystals, which began our extensive history.

- Manufactured with Premium Q, Swept Quartz Material traceable to the Quartz Bar and Growing Autoclave.
- Ruggedized Mounting of the Quartz Crystals for excellent Shock and Vibration performance.
- Each Quartz Crystal is closely examined under magnification at the Precap Inspection Point to ensure superior long-term performance and reliability.
- Various mechanical packages are available, HC-40/U, HC-35/U, Surface Mount BSM1 and Glass encapsulated BG6
- Premium Q, Swept Quartz Crystals manufactured in-house.
- Manufactured with Premium Q, Swept Quartz Material traceable to the Quartz Bar and Growing Autoclave.
- AT and Doubly Rotated, (SC and IT Cuts)
- Manufactured to meet 100 krad environment

Typical Environments:

- Commercial and Defense
- In-Orbit Heritage deployed on Missions with a Life of 20 years.

Applications:

- Beacons
- Master Clock References
- Navigation/GPS
- Communications
- Up/Down Converters, (e.g. Ka, Ku, C Band)
- Deep Space Exploration
- Defense
- Radar

Building Environment:

- The quartz crystals are subjected to a meticulous cleaning procedure and then processed in a clean environment, Class 100 Laminar Flow Stations for Plating and Mounting.
- Each Quartz Crystal is Vacuum Sealed for excellent Long-Term Performance.
- The individual Quartz Crystals are electrically characterized to ensure compliance with each of the required specifications.

Missions and Defense Projects:

- Cassini-Huygens (Saturn); Mission Update:
http://www.nasa.gov/mission_pages/cassini/main/#.U6c9kHYw-iw
- New Horizons Pluto-Kuiper Belt Mission; Mission Update:
http://www.nasa.gov/mission_pages/newhorizons/main/#.U6c65XYw-ix
- Mars Global Surveyor
- SBIRS
- Transit
- GPS III
- GRAIL
- Galileo
- Iridium
- Mars Probe Deep Space Exploration
- Palapa
- Intelsat
- MilStar
- Galaxy
- Leasat
- HS350
- Anik-D
- Latent
- Minuteman III
- SM-2
- Trident
- Poseidon
- Numerous Classified Missions