1930s 1940s 1950s 1960s 1970s 1980s 1990s 2000s 2010s

Ceramic-based (Murata)

Crystal-based (TEW)

Starts producing quartz crystals for underwater communication

Grows artificial crystal

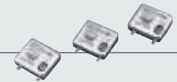
Quartz crystal for color TVs

Lead type

SMD type

Sandwiched type

Cap Chip type



TCXOs for mobile phones

Industry's smallest quartz crystals in 2016 size

High-precision TCXOs and VC-TCXOs

●2009
Murata-TEW
capital alliance

Quartz crystals (resin sealed)

Quartz crystals (airtight)