AVX Biddeford, Maine
High Reliability
Tantalum Capacitors
AVX Biddeford will be recognized within the medical device and military/aerospace markets as the Premier Supplier of Tantalum Capacitors for their most demanding applications.
Biddeford, Maine

- High reliability surface mount solid tantalum capacitors and 93026 wet tantalum capacitors
- 200 employees - 70,000 sq. ft. facility
- Fully integrated production and test
- >25 million devices per year
- Supply to all the major manufacturers of implantable medical devices and military/aerospace contractors
- Military qualification – 5 product lines
- AS9100 certification
- Lean manufacturing
- FOE program
- ITAR certified
- Infinity QS real time SPC with management alarms
- Tantalum material inventory for long term stability
- **Excess capacity to support long term growth of our customer base.**
Military/Aerospace

The industry’s widest offering of surface mount tantalums

Tin-lead terminations will ALWAYS be available

SBE Plating Line for Sn/Pb, Gold or 100% Sn

US source + short cycle times

ITAR certified

Customers
Astrium, BAE, Boeing, Crane, Curtiss-Wright, Elbit, General Dynamics, Harris, Honeywell, ITT Aerospace, L-3, Lockheed-Martin, Loral, Northrop-Grumman, Raytheon, Rockwell, Thales, Tyco, United Technologies,

AVX Distribution Network
Technology Leadership for Mil/Aero Market

- **CWR09/11/19/29/ Ta Chip**
  - Most popular military Tantalum
  - Extended Range / Low ESR

- **CWR15 TAC Microchip™**
  - First new MIL qualified technology
  - Smallest Size Tantalum Chip
    - 0603 to 1206

- **TCP Tantalum Modules**

- **SRC9000 and CWR T spec.**
  - Space Level with DPA sample and
    100% X-ray Inspection

- **TBW Fused Tantalum**

- **TWA Wet Tantalum Capacitor**

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AVX High Rel
Tantalum Innovations

- **TAZ**
  - 1\(^{st}\) molded surface mount military tantalum capacitor and most popular – CWR09
  - 1\(^{st}\) low ESR molded chip – technology adapted for TPS series

- **CWR19/29**
  - 1\(^{st}\) extended range military CWR
  - AVX initiative, based on medical development

- **CWR15**
  - Smallest CWR: based on TAC medical qualifications
  - Limited design wins because of voltage capability

- **COTS+ series**
  - TAZ, TBJ, DSCC 95158 and 07016
  - Introduced to allow use of commercial range with military reliability
- **SRC9000 Space Level**
  - TAZ, TBJ
  - Lot charges for DPA and Group C
  - Extensive Conformance Testing
- **New DSCC T level**
  - CWR09HC336KTB
  - Lot charges for DPA and Group C
- **TBW fused tantalum capacitor**
  - Thin film fuse rather than wire
  - DSCC 04053
- **Modules**
  - DSCC Drawing Pending
- **TWA Wet Tantalum**
  - DSCC 93026
TBW Fused Solid Tantalum Capacitor

Used in Military/Aerospace applications where proper derating is not possible

DSCC 04053 certified

**Special lead frame to accept 0402 and/or 0603 Fuses**

**Typical Frequency Response D4.7uF-50V w/ Single Fuse**

- **Z (Ohms)**
- **ESR**

![Graph showing frequency response](image-url)
AVX Wet Tantalum
TWA Series

Wet Tantalum Capacitors Qualified to DSCC
Dwg. 93026
Biddeford Mil/Aero Business

- Liberal FG inventory in Biddeford
- 50% of our sales are book/ship in the month
  - May be in bulk or needs surge testing, but it’s there!
  - Average cycle time = 4 weeks
- **Service**
  - 98% on time delivery
  - Stock to 8 weeks cycle times for CWR
- **We will NEVER go on allocation or extend leadtimes**