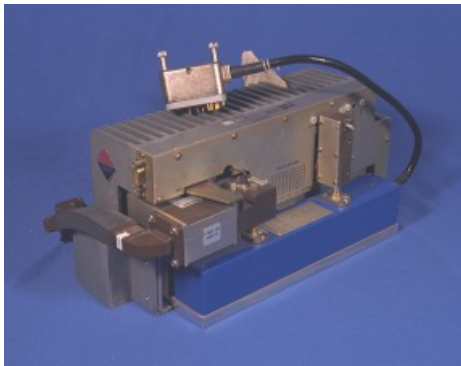


Terrestrial Radio Link Solid-State TWT Replacements

Used TWTAs

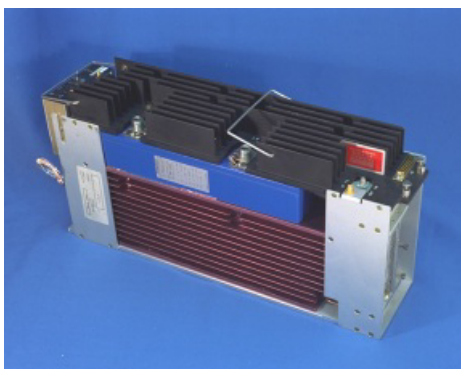
DO NOT PURCHASE USED TWTAs! - Many customers have tried in vain to maintain their radio equipment with used TWTAs. While providing a possible initial cost savings, these TWTAs offer the following proven disadvantages.

Initial Turn On - Less than 50% initially turn on out of the box requiring a technician to have several units on hand in case the first, second, third, etc. unit does not work.



Short Operation Life - If a used TWT is successfully installed and turned-on out of the box, it may only last one year or less and will require frequent change outs. Remember a typical new TWT is only expected to last 6-8 years.

Limited Shelf Life - Some resellers may have new TWTAs that have never been turned on and were sitting at another facility for many years. TWTAs have a limited shelf life. Using these tubes increases the risk of initial turn-on failure or extremely shortened tube life.



Limited Supply - Eventually, as Solid-State Amplifiers continue to replace TWTAs and with deterioration of new and used TWTAs over time and use, used TWTAs will become unavailable or harder to find. In fact, several older TWT models are no longer available. Radio refurbisher's and reseller's are limited by what is available in the surplus and used microwave radio market, so when a replacement is required in a timely manner it may not be available.