

ECCOSTOCK® FFP used for Staking Toroidal Inductors in Place

MtronPTI (www.mtronpti.com), a full service manufacturer of frequency control devices sought to encapsulate several toroidal inductors in one of their 250 MHz High Power RF Filters. These inductors (shown after potting below) undergo extreme vibration throughout its lifespan and without being properly staked in place, they would eventually vibrate loose causing the equipment to malfunction.



Toroidal inductors and transformers are electronic components, typically consisting of a circular ring-shaped magnetic core of iron powder, ferrite, or other material around which wire is coiled to make an inductor. Toroidal coils are used in a broad range of applications, such as high-frequency coils and transformers.

Engineers at MtronPTI qualified ECCOSTOCK® FFP for its low loss characteristics and low shrinkage properties. This inexpensive replacement for a potting compound that was used years before is a powder that when packed properly and heat cured has minimal shrinkage. This key factor along with its low 1.25 dielectric constant allows the ECCOSTOCK® FFP to be used in potting electronics without exhibiting stress on delicate components or affecting its RF properties.