



Data Sheet

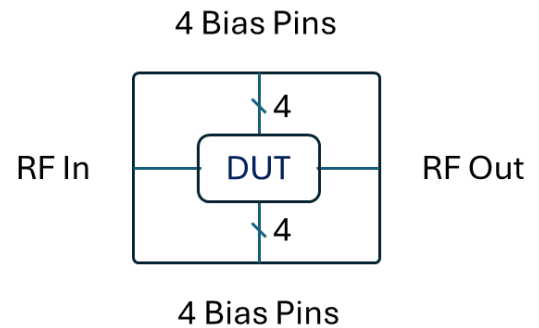
AGPT-06-A01-C-00

OVERVIEW

The ED2 Universal Glass Package (UGP100™) is an innovative surface-mount hermetic solution that delivers exceptional performance at a fraction of the cost of traditional hermetic sealing methods. Engineered for operation beyond 100 GHz, this compact SMT package measures just 3.5 x 4.3 mm and features a copper-based construction for superior heat dissipation and thermal management.

Optimized for high-frequency applications, the UGP100 is an excellent choice for packaging high-frequency amplifiers, attenuators, limiters, or multifunction RF devices operating up to 100+ GHz. Its design ensures minimal performance variation and outstanding repeatability from part to part. Additionally, the UGP100 is RoHS-compliant, meets industry standards, and provides a hermetic sealing solution ideal for demanding environments.

Functional Block Diagram

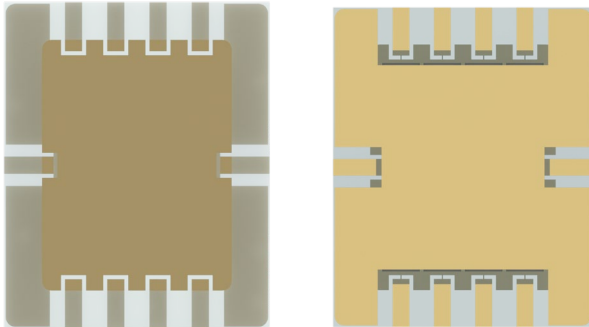


FEATURES

- -40°C to +85°C
- Moisture Sensitivity Level: MSL2A
- Surface Mount Package
- Room for 8 Single Layer Caps (SLCs)

APPLICATIONS

- Aerospace equipment including aircraft and satellites
- Military / Defense systems including communication equipment, radar systems, and other electronics and devices
- Telecommunications, particularly those for harsh environments
- Instrumentation and controls
- Medical equipment and device



Physical Package Size

3.5 mm x 4.3 mm x 0.15 mm No Lid

3.5 mm x 4.3 mm x 0.60 mm W/ Lid

BENEFITS

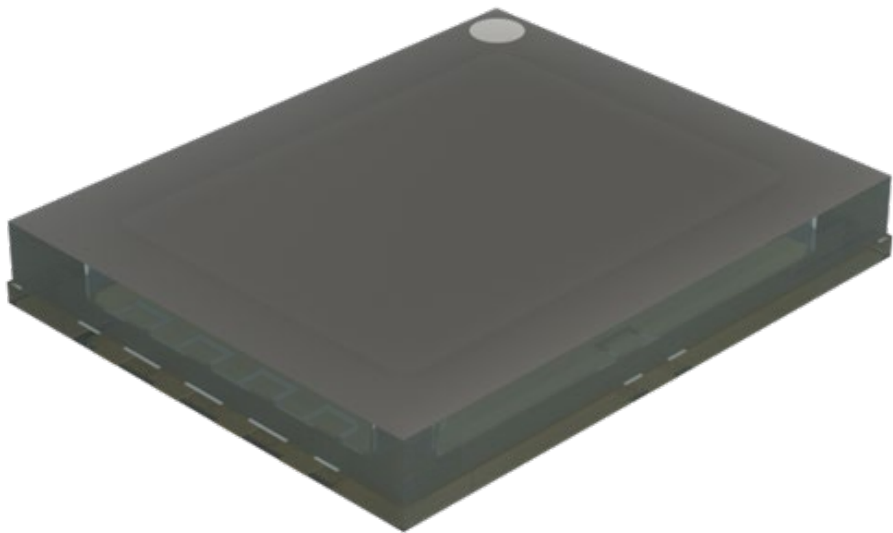
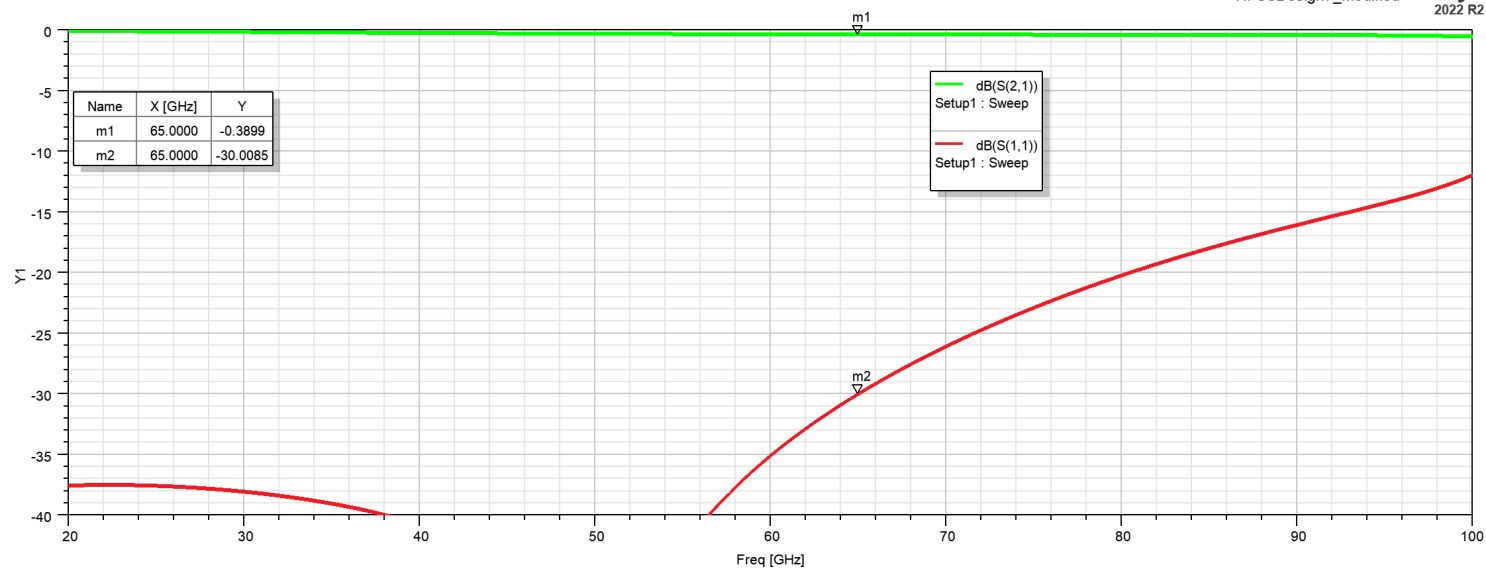
- **Reliable operation in harsh environments:** Our hermetic sealing technology protects your sensitive components.
- **Exceed project requirements:** EPI's custom engineering ensures your packages meet and exceed environmental and budget constraints.
- **Legacy package support:** We can provide solutions for obsolete or discontinued ceramic RF packages.



Simulated Package Performance Over Frequency

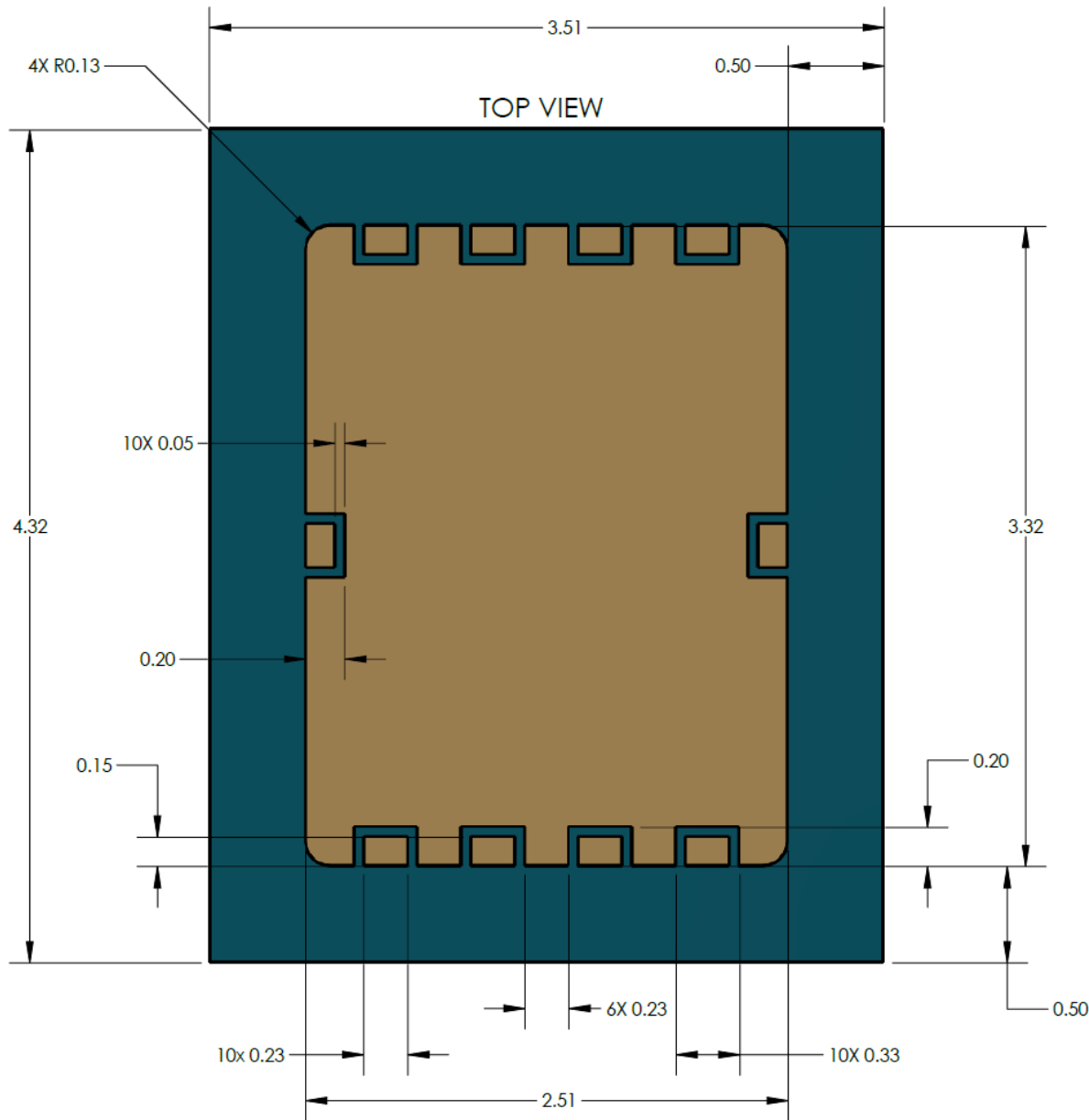
S Parameter Plot 1

HFSSDesign7_Modified **Ansys**
2022 R2





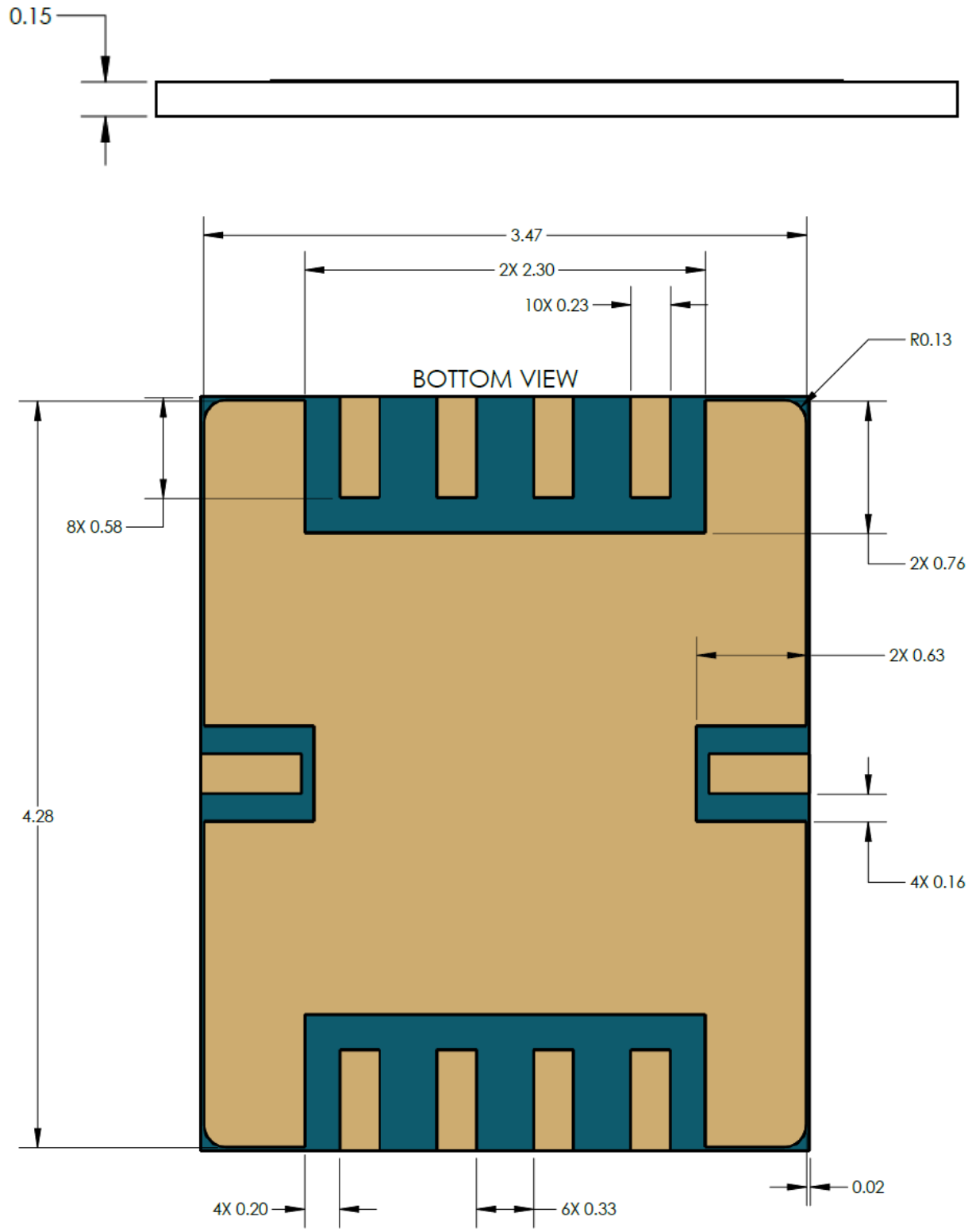
Base Package Dimensions





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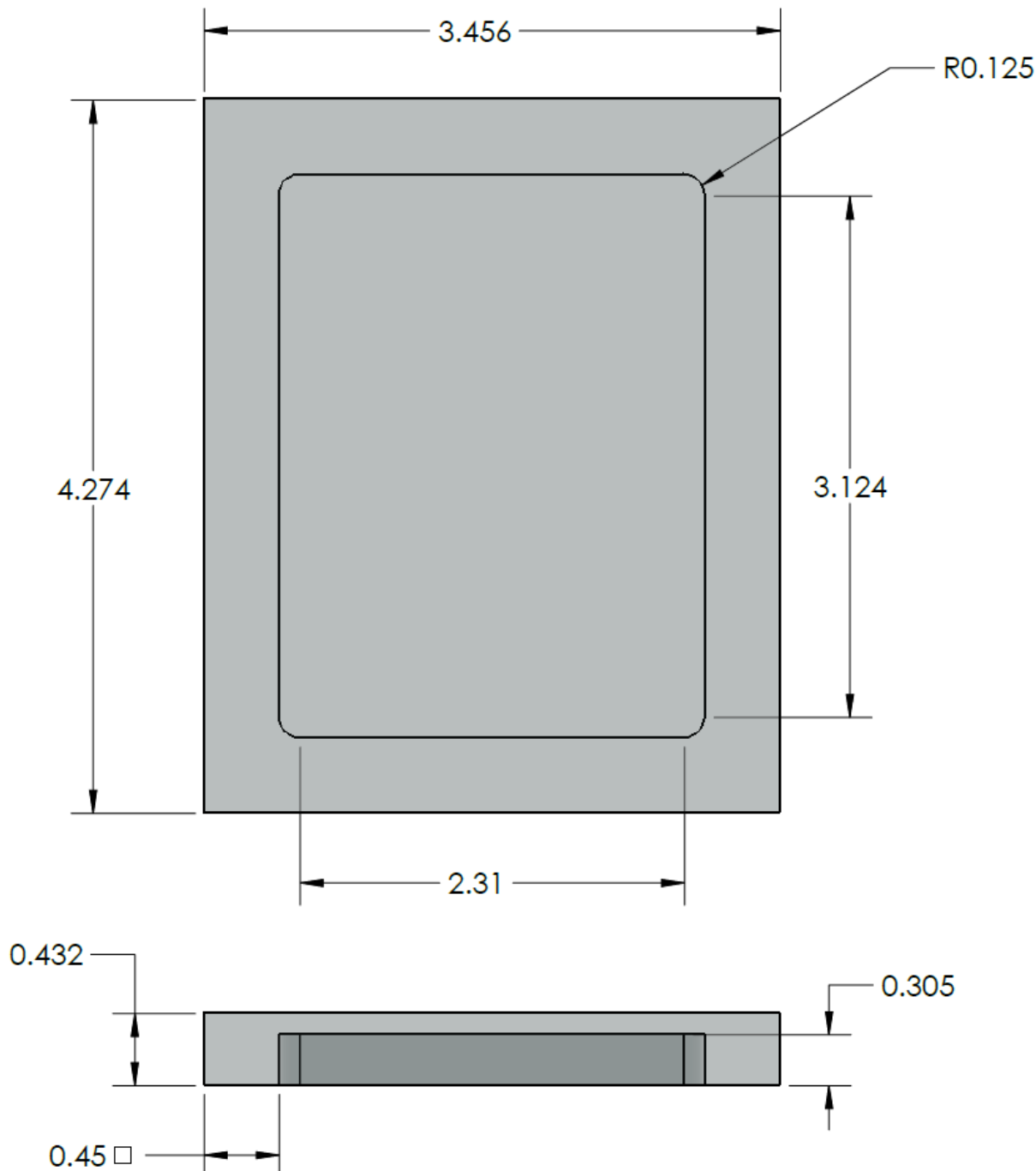




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Glass Lid Dimensions





Ordering Guide

Model	Package Description
AGPT-06-A01-C-00	Module in gel-pak
AGPT-06-A01-C-00-TR	Module in tape-and-reel packaging