



December Testing Summary



Global Electronics Testing Services

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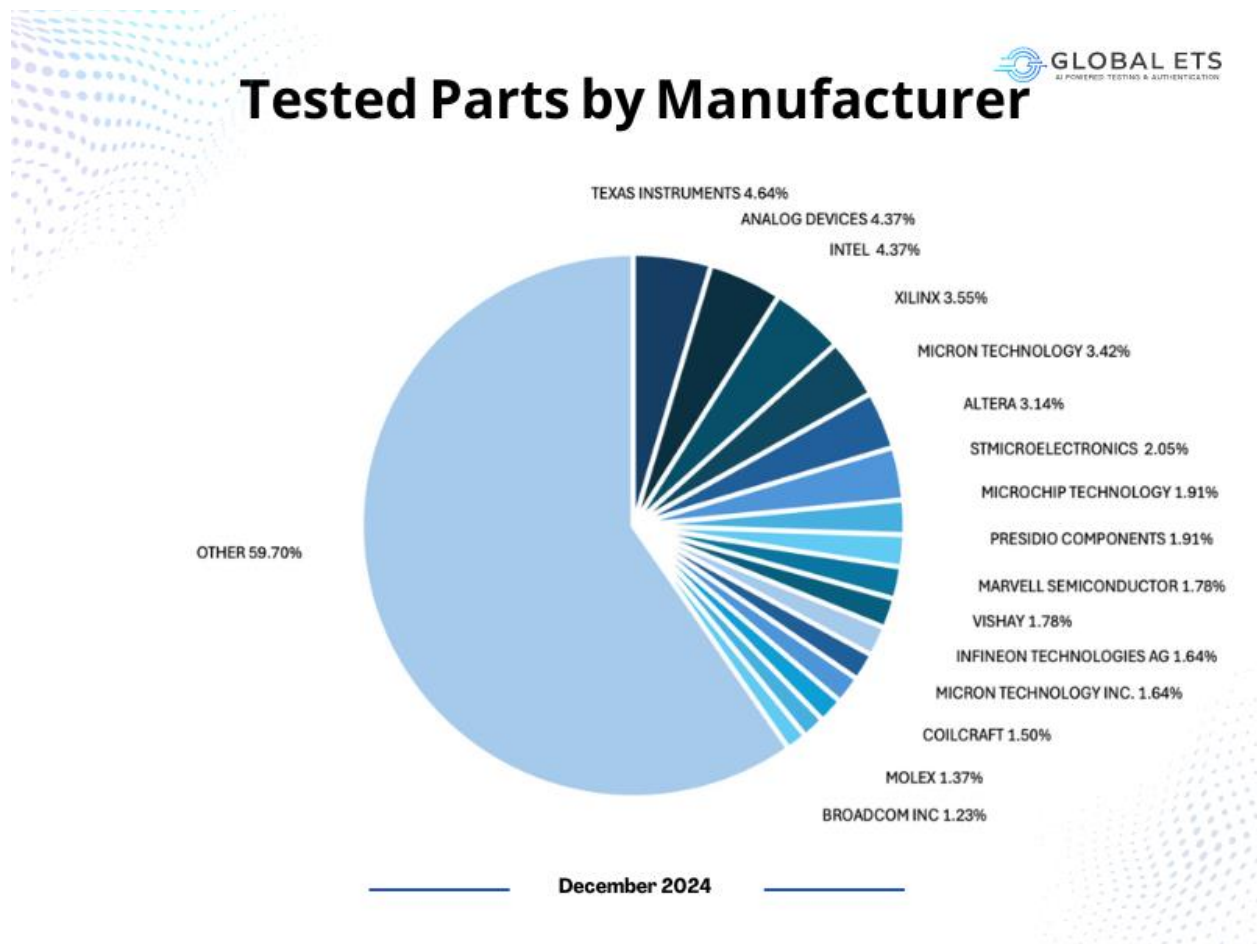
January 15, 2025

Introduction

At Global ETS, we believe leveraging our data is essential to spotting trends and reducing risks like counterfeiting in the electronic component industry. As a trusted partner to OEMs, CMs, and other industry professionals, we gather and review data to better understand our sector. Here's what recent numbers from our lab reveal.

Types of Parts Tested per Manufacturer

Every day, parts from the top manufacturers come through our lab. In December, we most often saw parts from **Texas Instruments (4.64%)**, **Analog Devices (4.37%)**, and **Intel (4.37%)**. Comparing our data to last month's, we can see that Intel overtook Xilinx for the number 3 spot. Does this mean demand for Xilinx FPGAs is decreasing? It's too early to tell. We need to see consistent data over several months to determine if this is a meaningful trend or just a short-term fluctuation.



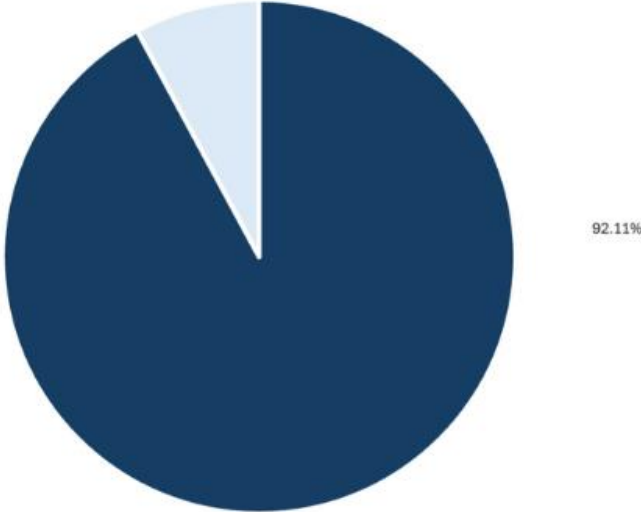
Pass Rates of Components

According to our data, the overall pass rate for components is **92.11%**. This means most parts meet their quality and authenticity requirements. However, the 7.89% that fail testing is a reminder of the risks posed by counterfeit parts, defects, or inconsistencies in manufacturing.

Failures can happen for many reasons, such as defects, counterfeit parts, or inconsistencies in manufacturing. By catching these problems during testing, we help companies avoid costly errors and keep their systems running smoothly.



Testing Pass Rate



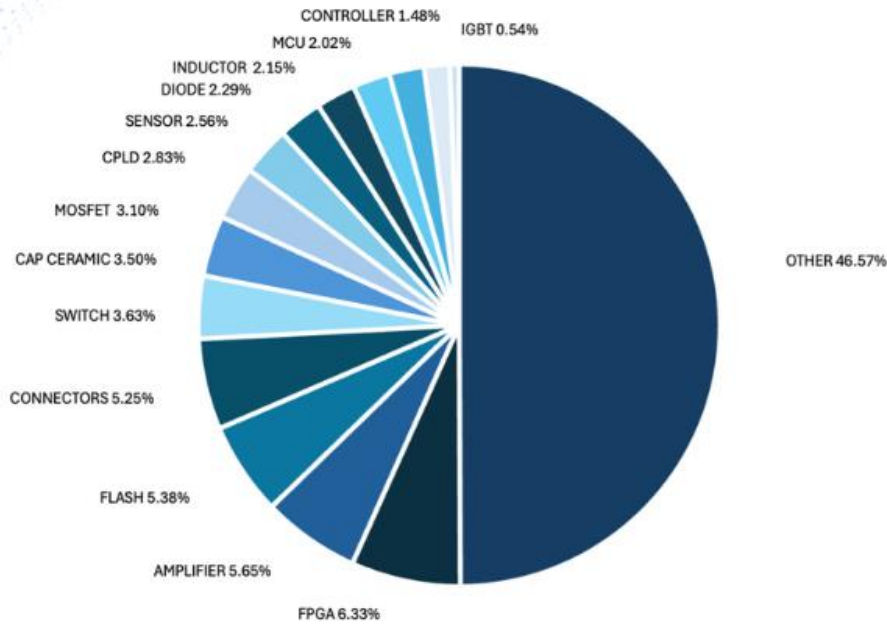
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Parts Tested by Device Type

In December, **FPGA's, amplifiers, flash memory, connectors, and switches** were among the most frequently tested parts. Amplifiers, often used in devices like headphones and audio systems, ensure clear and accurate signal transmission, while flash memory is essential for reliable data storage. Connectors and switches, on the other hand, are critical for maintaining seamless functionality in both consumer and industrial applications. All electronic components play a critical role in the proper functioning of today's products.

Tested Parts by Device

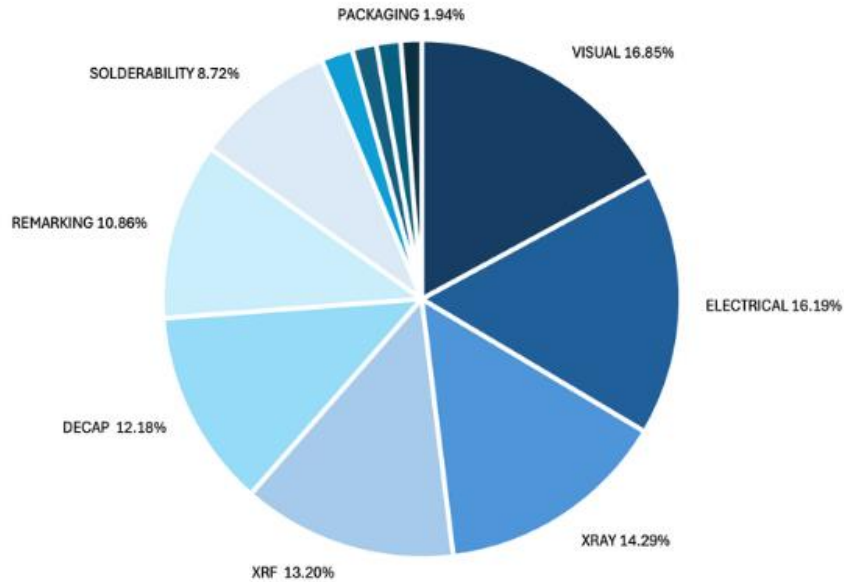


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Types of Tests Performed

At Global ETS, we use several different methods to check the quality and authenticity of components. As has been the case since the start of our monthly report, **visual (16.85%)**, **electrical (16.19%)**, and **X-Ray (14.29%)** testing take up the top 3 spots for tests performed. While these continue to dominate, other critical methods such as **XRF (13.2%)**, **decap (12.18%)**, and **remarking (10.86%)** are also being utilized. XRF, which works hand in hand with X-ray testing, verifies that the materials used in a component meet expected specifications. Decapsulation is the destructive process of opening an electronic component to find and verify the die. Each of these tests helps us catch problems that could affect reliability.

Test Types



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Conclusion

At Global ETS, we are proud to help companies ensure their products are built on high-quality, authentic electronic components. Our data highlights the need for ongoing testing to navigate the increasingly complex global supply chain.

If you'd like to learn more about how Global ETS can support your component testing needs, visit www.gets-usa.com or contact us at sales@gets-usa.com.