



Autobom.ai

Vendor Qualification & Quality Assurance Framework

Enterprise-Grade Component Quality Assurance

Quality and authenticity are critical in electronic procurement - Autobom ensures both at every stage of sourcing.

Our vendor qualification and quality framework is designed to reduce supply risk while maintaining cost efficiency across your BOM.

1. Supplier Qualification

All suppliers are pre-qualified through certification validation (ISO 9001, ISO 14001, ISO 45001, IATF 16949) along with legal, financial, and compliance checks.

This ensures only reliable, production-grade vendors are included in sourcing.

2. Anti-Counterfeit Protection

Autobom aligns with global standards such as AS5553 and IDEA-STD-1010.

Suppliers must source through authorized channels with full chain-of-custody traceability - significantly reducing counterfeit risk across your BOM.

3. Inspection & Verification

A structured inspection framework is applied based on component risk level.

This includes visual inspection, X-ray validation, XRF testing, and advanced electrical verification - ensuring component authenticity before delivery.

4. Component Qualification Testing

Critical components undergo electrical and functional validation, including JEDEC ID checks, programming validation, and optional third-party lab testing.

This ensures performance reliability in real production environments.

5. Traceability & Documentation

Every sourced component includes full traceability - manufacturer, part number, date code, and lot tracking.

This provides complete visibility for your procurement team while maintaining supplier confidentiality.

6. Continuous Vendor Monitoring

Suppliers are continuously evaluated using performance scorecards, compliance tracking, and market intelligence.

This ensures consistent quality, reliability, and sourcing performance over time.

7. Risk Management & Control

All quality incidents trigger immediate containment, root cause analysis, and corrective actions.

Suspect components are quarantined and investigated - preventing downstream production risk.

8. Customer Assurance

Autobom delivers fully traceable, authentic components supported by structured quality controls and rapid issue resolution.

This enables confident, production-scale procurement with reduced supply risk.