

## **SUPPLIER QUALITY REQUIREMENTS**

### **Non Franchised Distributor**

“The seller should have a quality management system that complies with ISO 9001, AS9120 or AS9100 Quality Management System Requirements. If an organization that has obtained a certificate/registration to ISO9001, AS9120 or AS9100, and has changed certification/registration bodies (CBR), lose registration status, or put on notice of losing registration status, it shall notify GWT within three days of receiving such a noticed from its CRB”.

“The Seller must disclose in writing, at the time of quotation whether or not the source of supply is authorized (franchised) for the part(s) being quoted and whether or not is providing full manufacturer’s warranty on the quoted part(s). The seller must also disclose if the seller or the supply chain intermediaries, which the parts were sourced from, has a fraudulent/counterfeit part control plan compliant to SAE AS5553A.”

“The seller shall maintain a method of item supply chain traceability that ensures tracking of the supply chain back to the manufacture of all EEE parts. The supply chain must clearly identify the name and location of all of the supply chain intermediaries from the manufacture to the direct source of the product for the seller, and shall include the manufacturer’s batch identification for the item(s) such as date codes, lot codes, serializations, or other batch identifications.”

“The seller shall provide full supply chain traceability including copies of the EEE part manufacturer Certificates of Conformance (CoC). The seller’s certificate shall also accompany each shipment. In no case shall the manufacturer’s certificate be altered or show signs of alteration. The Manufacturer’s CoC should include the manufacturer’s name and address, the manufacturer’s and/or buyer’s full part number and description, batch identification such as date codes, lot codes, serialization, or other batch identification, and signature or stamp with title of seller’s authorized personnel signing the certificate.”

“The seller shall establish and implement test and inspection activities necessary to assure the authenticity of purchased product, in accordance to the requirements established by the customer. This includes supply chain traceability, documentation verification and visual examination. Tests and inspection shall be performed in accordance with defined accept/reject criteria provided or approved by GWT. The seller shall prepare and provide records evidencing test and inspections performed and conformance of the product to specified acceptance criteria. Test and inspection shall be performed by persons that have been trained and qualified concerning types and means of EEE parts fraud and suspect counterfeiting and conduct effective product authentication.”

Product safety and ethical behavior are necessary components of expectations for all purchase orders.

“If suspect or confirmed fraudulent/counterfeit EEE parts are furnished under this purchase agreement, such items shall be impounded. The seller shall promptly replace such items with items acceptable to GWT and the seller may be liable for all costs relating to impoundment, removal, and replacement. GWT may turn such items over to the authority having jurisdiction or investigation and reserves the right to withhold payment for the items pending the results of the investigation.”

### **Electronic Components**

Our customers are asking for parts to be certified to RoHS III. Please supply related Certificates of Conformance (CoC) where possible. Please send all applicable CoC’s with the shipment(s) against this order. Please include RoHS compliance where applicable. Include Date Code or Lot Numbers on all packing slips where applicable.

GWT will not accept returned goods or parts from supplier.

Retain records of this transaction for ten years. Product safety and ethical behavior are necessary components of expectations for all purchase orders.

While we don't need manufacturers Certs with shipments, we need to be able to trace numbers back to the manufacturer from time to time. Please have these available if needed.

Prompt notice of end of life items that come up is necessary...PDN's and PCN's.

For any item that may be scheduled per the order and delivery cannot be met, please notify GWT immediately.

Red phosphorus...this material is causing numerous shorts in electronics and vendor to disclose where this process is used. It's used as a fire retardant in plastics primarily sourced in China. Please advise where possible if this material is used.

“The Seller must disclose in writing, if applicable, at the time of quotation whether or not the source of supply is authorized (franchised) for the part(s) being quoted and whether or not is providing full manufacturer’s warranty on the quoted part(s). The seller must also disclose if the seller or the supply chain intermediaries, which the parts were sourced from, has a fraudulent/counterfeit part control plan compliant to SAE AS5553A.”

Any GWT in house part number beginning with GW is an aerospace requirement and QAP-05 (in GWT’s QMS) applies.

Any deviation to the requirements contained in this document must be accompanied by a written agreement between GWT and the subcontracting party.

The supplier is responsible for the conformity of the materials/services he supplies, including; corresponding contractual products, parts, and device documents.

Work under a GWT purchase order/contract is subjected to government or customer surveillance/inspection at the supplier’s facilities and sub-tier supplier’s facility throughout the supply chain. If a surveillance/inspection is to be conducted by the government or customer the organization will be notified prior to this event. Counterfeit materials...seller shall have a program to mitigate all counterfeit materials provided to GWT.

The supplier shall have a documented procedure which defines controls and related responsibilities and authorities for dealing with nonconforming products. GWT must be notified within 48 hours where supplied material has any nonconformance issues. Supplier must obtain approval from GWT for disposition on nonconforming product.

“If suspect or confirmed fraudulent/counterfeit EEE parts are furnished under this purchase agreement, such items shall be impounded. The seller shall promptly replace such items with items acceptable to GWT and the seller may be liable for all costs relating to impoundment, removal, and replacement. GWT may turn such items over to the authority having jurisdiction or investigation and reserves the right to withhold payment for the items pending the results of the investigation.”

The Supplier shall preserve the conformity of product during internal processing and delivery to the intended destination. This preservation shall include identification, handling, packaging, storage and protection. Preservation shall also apply to the constituent parts of a product.

### **Generic Printed Circuit Boards**

Please provide certs with all material shipped against this purchase order.

UL logo and date code required. Testing required on all multilayer boards (include marking).

Important: The fab drawing associated with this purchase order must be strictly adhered to except as GWT is transitioning to no lead soldering and therefor all Surface Plating shall be as follows: No exposed copper allowed: Silver Immersion= copper lands/pads are to be over plated with 4 to 10 micro inches of silver using the Alpha Level Process or McDermid Sterling Silver process. PCB must pass ANSI/3-STD-003 Solderability Test C Category 2 by an independent lab. This deviation will take precedence over any finish call outs on the fab drawing. Any other deviations to fab drawing must be approved and signed off by GWT. Cross section required each batch. Cross section waived on single sided boards. Clip silkscreen files with corresponding solder mask file. Please seal boards in vacuum bags with desiccant pouch. Retain all records relating to this order a min of two years.

The supplier shall have a documented procedure which defines controls and related responsibilities and authorities for dealing with nonconforming products.

The Supplier shall preserve the conformity of product during internal processing and delivery to the intended destination. This preservation shall include identification, handling, packaging, storage and protection. Preservation shall also apply to the constituent parts of a product.

Please acknowledge receipt of this order.

### **Aircraft related Printed Circuit Boards**

Please include the following with shipment:

Cross section samples for each batch manufactured.

Cross section report.

Full first article report that includes all fab drawing dimensions. AS9102 is required on all first time boards to be supplied to GWT and any Drawing or Gerber rev changes on existing or repeat orders. Actual dimensions must be provided and all note attributes on the Fab. drawing must be verified on the AS9102.

Board Cert that states all drawing requirements were met including all mil-stds and IPC standards. Electrical test cert that shows board is tested per net list.

Pre and Post thermal stress microsection report representing submitted production lot.

All PCB raw material certifications identifying materials used shall be provided.

The surface energy of the solder mask must be 44 dynes/cm minimum and takes precedence over fab drawing, and a Cert stating compliance and the value measured.

#### **REQUIREMENTS:**

UL Logo and date code required as well as UL flammability code (94V-0) on all boards. Location and method of identifying shall be in accordance with drawing note.

All notes and requirements specified on fab drawings must be adhered to. Any deviations must be granted, approved and provided by GWT in writing.

All Gerbers provided must be adhered to and complied with. Any changes or deviations must be granted, approved and provided by GWT in writing.

Laminate material and supplier may not be deviated from. Any change to laminate or source must be approved in writing by GWT and its customer.

A note about date codes: GWT is aware that more than one date code may be shipped in a shipment due to various reasons but we request that there will be a maximum of two date codes allowed in a shipment. We also ask that boards older than one year be approved for shipment prior to including same in batch.

Must observe all date expirations for material used for this order. Any nonconforming findings after product has been shipped must be disclosed to GWT within 48 hours.

Product safety and ethical behavior are necessary components of expectations for all purchase orders.

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Retain all records for a minimum of two years. Please notify GWT before disposing of any tooling.

Any deviation to the requirements contained in this document must be accompanied by a written agreement between GWT and the subcontracting party.

The supplier is responsible for the conformity of the materials/services he supplies, including: corresponding contractual products, parts, and device documents.

Work under a GWT purchase order/contract is subjected to government or customer surveillance/inspection at the supplier's facilities and sub-tier supplier's facility throughout the supply chain. If a surveillance/inspection is to be conducted by the government or customer the organization will be notified prior to this event.

The supplier shall have a documented procedure which defines controls and related responsibilities and authorities for dealing with nonconforming products. Supplier must obtain approval from GWT for disposition on all nonconforming product(s).

The Supplier shall preserve the conformity of product during internal processing and delivery to the intended destination. This preservation shall include identification, handling, packaging, storage and protection. Preservation shall also apply to the constituent parts of a product.

This order is ITAR recognized.

Please acknowledge receipt of this order and acceptance of these requirements.

### **ITAR**

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