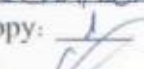



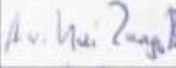
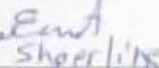



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QUALITY REQUIREMENTS FOR PCB SUPPLIERS PCB 102/1

					Release date: 02/04/2024 Authorized copy:  Signature: 
	Approver # 1	Check #1	Check #2	Check #3	Authorized by
Position:	Commercial Division Team Leader	Quality Leader Suppliers	Quality Assurance Manager	Quality Assurance Manager	VP Supply chain and trade
Name:	Eti Ben-David 	Avihai Zango-Bar	Einat Shperling	Yael Laks-Abbou	Michael Digerman
Signature:					
Date:	24/03/2024	25/03/24	27.3.24	27.03.24	31.3.24

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List of Changes

Released	Details	Date	Authorization
A	New Regulation	April 17, 2014	
B	Update	December 15, 2015	
C	Update	February 04, 2018	
D	Update	January 01, 2020	
E	Update	November 02, 2020	
F	Update	August 16, 2021	
G	Add section of Fraudulent/counterfeit & Add reference to FOD program	April 19, 2023	Einat Shperling
H	Translation update	May 21, 2023	Yael Laks-Abbou & Avihai Zango-Bar
I	Apendix B addition	March 20, 2024	Eti Ben-David



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1. SCOPE

- 1.1. This document specifies general quality requirements for PCB TECHNOLOGIES suppliers.
- 1.2. The requirements specified in this document are supplementary requirements to the Purchase Order and/or Statement of Work.

2. SUPPLIER CLASSIFICATION

	Suppliers of
Class 1	Laminate, Prepreg, Solder mask, adhesivless, bond ply and cover layer.
Class 2	Special Processes suppliers
Class 3	Manufactured parts
Class 4	Chemicals
Class 5	Distributors (of raw materials Chemicals)
Class 6	Manufacturing Tools


3. DELIVERY NOTE AND COC

The supplier/distributor shall supply:

- 3.1. Delivery note containing:
 - PCB TECHNOLOGIES PO Number
 - Product description
 - Part Number (as written on PCB TECHNOLOGIES Purchase order)
 - Batch Number
 - Quantity
- 3.2. Original manufacturer COC

4. TEST CERTIFICATION

- 4.1. The COC/COT shall include the following information:
 - 4.1.1. Purchase Order Number.
 - 4.1.2. The identification and revision status of specifications, drawings, process requirements, inspection/verification instructions, and additional relevant technical data.
 - 4.1.3. Product/material details and compliance - IPC, ROHS, Conflict Minerals, REACH, UL, etc.
 - 4.1.4. Certificate of Conformance – COC.
 - 4.1.5. Test Reports (Class 1,2,3,4).
 - 4.1.6. Raw Material Certification (Class 3).
 - 4.1.7. Certificate of Analysis - COA (Class 1,2,3,4).

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5. SUPPLIER CERTIFICATION

- 5.1. All suppliers (Class 1,2,3,4) must be ISO-9001 or ASE AS9100 certified.
 - 5.1.1. The supplier shall take measures and controls to prevent counterfeit materials. AS6174 should be used as a guideline.
- 5.2. Distributors (Class 5) must be AS9120 or ISO9001 certified.
- 5.3. Special processes suppliers (Class 2) shall be approved by the final customer and NADCAP (if so required) for the applicable process and type.

6. AUDITS AND INSPECTIONS

PCB TECHNOLOGIES Quality Assurance will carry out periodical audits and inspections at the supplier's sites at PCB TECHNOLOGIES' discretion.

7. SECONDARY SOURCE

No secondary source shall be used without prior written approval by PCB TECHNOLOGIES.

8. ENVIRONMENTAL PROTECTION COMPLIANCE

All suppliers shall meet all governmental and local authorities' legal and regulatory requirements pertaining to environmental protection and shall be able to present applicable documentation upon request.

9. SHELF- LIFE CONTROLLED MATERIAL

Material delivered to PCB TECHNOLOGIES shall have a minimum of 75% of shelf life remaining prior to date code expiration.

10. RIGHT OF ENTRY


- 10.1. PCB TECHNOLOGIES, its representatives, customers, and customer's government and regulatory agencies shall have the right of entry into the Supplier's facility and the facilities of Supplier subcontractors. The Right of Entry will include access to quality system documentation, quality records as well as the ability to conduct audits, and verify product and processes.
- 10.2. The supplier shall provide the PCB TECHNOLOGIES representatives with all required support to carry out their inspection, including calibrated gauges and fixtures in good working condition.

11. NONCONFORMING PRODUCTS

- 11.1. A non-conformance is any disruption created by Supplier which impacts PCB TECHNOLOGIES or PCB TECHNOLOGIES' customers' process. Common examples of non-conformance include but are not limited to non-conformance to the component specification or a delivery delay or error which causes disruption in PCB TECHNOLOGIES manufacturing plant. Non-conforming material shall not be reworked and sold to PCB TECHNOLOGIES as new product unless prior written authorization has been granted.

12. STORAGE CONDITIONS (FOR DISTRIBUTOR)

- 12.1. The distributor is responsible for ensuring any products stored before their delivery to PCB TECHNOLOGIES are stored at the required temperature, humidity, and environmental conditions in accordance with the manufacturer's recommendation. The Distributor shall provide PCB TECHNOLOGIES with all records as per PCB TECHNOLOGIES' requirements.

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12.2. The Distributor is responsible for ensuring products that are transported to the Distributor's facility at the required temperature, humidity, and environmental conditions as per the manufacturer recommendation.

13. PACKAGING AND FOREIGN OBJECT DAMAGE (FOD)

13.1. The manufacturer must ensure no foreign objects contaminate production and product packaging.

13.2. The supplier shall maintain an FOD prevention program and shall be able to present documentation upon request.

13.3. The Supplier shall ensure the FOD requirements are aligned with standard AS9146

14. SAMPLE INSPECTION

14.1. Sample inspection shall be performed according to final customer requirements and applicable specification requirements.

14.2. Unless otherwise specified (Class 1,2,3) sample inspection for drawing characteristics shall be performed according to C=0 Sampling plan AQL=2.5% (Appendix A), Visual inspection shall be performed on 100% of the supplied products.

15. LOT REJECTION

15.1. Any rejection identified by the supplier should be reported to PCB TECHNOLOGIES.

16. RECORD RETENTION

16.1. The Record retention period shall be defined by the final customer requirements.

16.2. Supplier's quality control records related to PCB TECHNOLOGIES purchased product shall be retained and available to PCB TECHNOLOGIES for a minimum of 10 years after the last delivery unless otherwise specified.

17. FLOW DOWN REQUIREMENT TO SUB-CONTRACTORS

17.1. Outsourcing of processes and activities is not allowed without PCB TECHNOLOGIES' prior written approval.

17.2. The Supplier is responsible to ensure all applicable requirements determined by PCB TECHNOLOGIES and the final customer are communicated to its subcontractors and suppliers and that its subcontractors and suppliers comply with these requirements.


18. SPECIAL REQUIREMENTS

18.1. Special requirements, Critical Items and Key characteristics specified in the procurement documents such as purchase order, statement of work, drawings, special requirements appendix (SRA) etc. shall be controlled and managed as required using the applicable document.

19. CONTROL OF WORK TRANSFERS AND PRODUCTION/PROCESS CHANGES

19.1. Temporary or permanent transfer of work related to the purchase order requires approval of PCB TECHNOLOGIES.

19.2. The control of work transfer shall be monitored and managed as per PCB TECHNOLOGIES' requirements.

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20. CHANGE MANAGEMENT

The supplier shall notify PCB TECHNOLOGIES of any changes which include but are not limited to products, manufacturing processes, materials, suppliers, subcontractors, manufacturing facility locations and ownership.

20.1. Product Discontinuance -In case of Product Discontinuance, the Supplier shall provide written notice of planned Product Discontinuation 18 months minimum prior to the product discontinuance date.

21. TRACEABILITY

21.1. Materials and Products shall be supplied from the manufacturing lot traceable to the Test certification.

21.2. The supplier must maintain a complete traceability system for all raw materials used for production.

22. PROCESS SPECIFICATION

22.1. The supplier shall follow the latest revision of the applicable specification published by the specification publisher.

23. COUNTERFEIT COMPONENTS

The Supplier shall take measures and controls to prevent counterfeit components. A counterfeit component control plan should address the following major topics, as applicable (consult AS6174 for more information):

23.1. Authentic and Conforming Materiel Availability

23.2. Personnel Training

23.3. Parts Availability

23.4. Purchasing

23.5. Purchasing Information

23.6. Verification of Purchased/Returned Part(s)

23.7. In-Process Investigation

23.8. Failure Analysis

23.9. Material Control

23.10. Reporting

23.11. Post Delivery Support

Should the Supplier suspect counterfeit materials were supplied, a written notice of this suspicion must be reported to PCB-T within 24 hours.

24. TEST CERTIFICATION

24.1. The COC/COT shall include the following information:


24.1.1. Purchase order Number.

24.1.2. The identification and revision status of specifications, drawings, process requirements, inspection/verification instructions, and other relevant technical data.

24.1.3. Product/material details and compliance- IPC, ROHS, Conflict Minerals, REACH, UL, etc.

24.1.4. Certificate of Conformance – COC.

24.1.5. Test Reports (Class 1,2,3,4).

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24.1.6. Raw materials Certification (Class 3).

24.1.7. Certificate of Analysis - COA (Class 1,2,3,4).

25. DELIVERY NOTE AND COC

The supplier/distributor shall supply:

25.1. Delivery note, which contains:

- PCB TECHNOLOGIES PO Number
- Product description
- Part Number (as written on PCB TECHNOLOGIES Purchase order)
- Batch Number
- Quantity

25.2. Original COC of the manufacturer

26. ADDITIONAL REQUIREMENTS FOR CLASS 1,3 SUPPLIERS

26.1. First item (FAI) and process changes:

- 26.1.1. First article inspection must be performed for each first production lot according to final customer specific requirements.
- 26.1.2. Unless otherwise specified FAI shall be performed according to AS 9102 requirements.
- 26.1.3. First Article Inspection items must be identified.

26.2. Should the supplier wish to make one or more changes in the product or processes, PCB TECHNOLOGIES must be notified in writing in advance to allow examination of the need for renewed approval of First Article inspection (Full or partial).

27. REQUIREMENTS FOR HEAT SINK PRODUCTION/PROCESS

27.1. The HEAT SINK manufacturing will be performed according to the drawing and the statement of work attached to the purchase order.

27.2. The supplier must supply a plate containing a minimum of 4 samples for each production lot (witness test samples).

Sample dimensions are to correspond with Picture No. 1 (see page 11). The witness test samples should be made from the same material and with the same coating as the HEAT SINK.

28. REQUIREMENTS FOR HEAT SINK COATING PROCESS


28.1. The HEAT SINK shall be coated according to the drawing/specification and the statement of work attached to the purchase order.

28.2. If the coating sub-contractor is supplied with coupons (witness test samples), with the heat sinks, the same coating must be applied to the heat sinks and the coupons.

29. FAILURE ANALYSIS

29.1. Should a product failure be discovered, a comprehensive failure analysis must be performed (including root cause and corrective action). The failure analysis shall include, but is not limited to:

- 29.1.1. Audit findings.
- 29.1.2. Complaints.
- 29.1.3. Non-conformances.

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- 29.1.4. CAPA.
- 29.1.5. Field Action.
- 29.1.6. Similar products and processes.

29.2. Failure analysis must be conducted and documented using the **8D method**.

- 29.2.1. In case of a complaint the supplier shall complete and submit the first D1, D2, D3 paragraphs of the **8D report** to PCB TECHNOLOGIES' QA representative within **48 hours**.

The following D3 questions must be addressed:

No.	Questions	Findings
1	Check stock item	
2	Check stock at supplier	
3	Check WIP at supplier	
4	Check boards in transit	
5	Check customer documentation versus production documentation	

- 29.2.2. Rejected product verified as supplier-caused that is returned to the supplier requires the supplier to investigate, complete and submit a full D4, D5, D6 report to PCB PCB TECHNOLOGIES' QA representative within **6 business** days from receipt of the products.
- 29.2.3. Should PCB TECHNOLOGIES decide to issue the supplier a complaint without returning the products, the supplier shall investigate, complete, and submit a full 8D report to PCBS Technologies' suppliers QA representative within **5 business** days since receipt of the complaint.

30. SUPPLIER CONFIRMATION


I hereby confirm that I have read, understood, and accept the general quality requirements depicted in this document and in the specific quality requirements.

Supplier signature

Company name

Full Name _____ Position _____

Date _____

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Appendix A

Sampling Plan C=0 (SQUEGLIA 4TH Ed)

Lot Size	Sample size AQL 2.5% * **
2-8	5
9-15	5
16-25	5
26-50	5
51-90	7
91-150	11
151-280	13
281-500	16
501-1200	19
1201-3200	23
3201-10000	29
10001-35000	35

(*) one or more non-conforming characteristics shall lead to lot rejection (C=0)

(**) Following rejected lot, the supplier shall perform 100% inspection on 3 consecutive inspection lots.

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Appendix B

THIS ANNEX A (the “**Annex**”) is incorporated by reference and attached to this certain purchase order issued by PCB Technologies Ltd. (“**PCB**”) for the supply of the certain products (the “**Products**”) by the supplier to whom the attached purchase order is issued (the “**Supplier**”, and “**Order**”, accordingly), and shall form an integral part of the Order. By accepting the Order, the Supplier agrees to all the terms outlined in this Annex. Each of PCB and Customer may be referred to herein also as a as the “**Parties**”. All capitalized terms not defined herein shall have the -“**Party**” and together meanings given to them in the Order.

1. Exclusivity and non-solicitation. the Supplier undertakes not to sell, quote or manufacture the Products, directly or indirectly, to any person or entity other than PCB, nor shall the Supplier contact, approach, conduct business activities, deal with, solicit, attempt to solicit or otherwise become involved with any Customer for the purpose of selling or manufacturing the Products, without PCB’s prior written approval. “**Customer**” means any supplier, manufacturer, customer, person, or any other entity that wishes to buy the Products, (excluding PCB), including and without derogating customers that were introduced to the Supplier by PCB (directly or indirectly) prior to or after the Effective Date. “**Products**” mean the products, parts or any other goods having the part numbers (P/N) as set forth in the Order, including revisions or similar products to the products with the part numbers set forth in the Order. This Annex shall survive the termination or expiration of this Annex or the Order and shall continue in full force for an unlimited period.
2. Liquidated Damages. Without derogating from any rights, claims, or remedies available to PCB, in the event of a breach of the obligations set forth in Section 1, PCB shall be entitled to agreed compensation equal to 40% of the Order. This compensation represents a reasonable estimate of the losses anticipated to be incurred by PCB due to such breach. For the avoidance of doubt, this agreed compensation shall not relieve Supplier’s obligations, including payment obligations, under any Order and shall be in addition to any payment due to PCB thereof.
3. Remedies. The Supplier acknowledges that PCB has invested substantial time, effort, and resources in developing its relationships with its Customers. The Supplier further recognizes that PCB would suffer irreparable harm if the Supplier were to engage in any activity to directly or indirectly supply, manufacture or sell the Products, or engage in any activity that solicits PCB’s Customers. Therefore, in addition to the liquidated damages payment under Section 2, PCB is entitled to seek immediate injunctive relief, as well as any other remedies available at law or in equity, in the event of a breach of this Annex.
4. Miscellaneous. This Annex shall be governed by the laws of Israel, without giving effect to its principles of conflicts of law. Any dispute arising out of or relating to this Annex shall be submitted to the exclusive jurisdiction of the appropriate court in Tel Aviv, Israel. The Customer may not assign its rights and obligations under this Annex, whether voluntarily or by operation of law without the prior written consent of PCB. This Annex shall be binding and inure to the benefit of the parties hereto and their permitted successors and assigns. Failure by either Party to enforce any provision of this Annex will not be deemed a waiver of future enforcement of that or any other provision. All rights and remedies in this Annex shall be in addition to any other rights or remedies in law or in equity. If for any reason a court of competent jurisdiction finds any provision of this Annex or portion thereof, to be unenforceable, that provision of the Annex will be enforced to the maximum extent permissible so as to affect the intent of the Parties, and the remainder of this Annex will continue in full force and effect. This Annex constitutes the entire agreement between the Parties with respect to the subject matter hereof, and supersede all prior agreements and representations, whether oral or written, regarding such subject matter. This Annex may not be modified or amended except in writing signed by a duly authorized representative of each Party. All notices, statements, and reports required or permitted by this Annex shall be in writing and deemed to have been effectively given and received; (i) five (5) business days after the date of mailing if sent by registered or certified mail, postage prepaid, with return receipt requested; (ii) when transmitted if sent by facsimile, provided a confirmation of transmission is produced by the sending machine and a copy of such facsimile is promptly sent by another means specified in this Section; or (iii) when delivered if delivered personally or sent by express courier service.