Bittium

Quality Requirements Summary for Suppliers

Area of Requirement	Requirement			
Environmental requirements				
EU ROHS: 2011/65/EC and amendments thereof.	Any item provided to Bittium must be RoHS compliant. Please inform exemption number when applicable (as listed in Annex III and IV of 2011/65/EU).			
EU REACH: EC 1907/2006 and amendments thereof.	 Any item provided to Bittium must be REACH compliant. Does not contain any of the substances included in ANNEX XIV List of substances subjected to authorization (https://echa.europa.eu/authorisation-list) Does not contain any of the substances included in ANNEX XVII List of restricted substances (https://echa.europa.eu/substances-restricted-under-reach) Please inform Substances of Very High Concern (SVHC) inclusion Please inform SVHC list version. https://echa.europa.eu/web/guest/candidate-list-table When SVHC is included, please inform substance name (including CAS No.) and concentration information [%/ppm]. 			
Persistent Organic Pollutants (POP): EC 850/2004 and amendments thereof.	Any item provided to Bittium should not include intentionally added or used POP substances.			
Fluorinated greenhouse gases (F-Gas): EU 517/2014 and amendments thereof.	Any item provided to Bittium should not include intentionally added or used F-Gas substances.			
Ozone depleting substances (ODS): EC 1005/2009 and amendments thereof.	Any item provided to Bittium should not include intentionally added or used ODS substances.			
EU Packaging Directive: 94/62/EC and amendments thereof.	Any packaging provided to Bittium must be compliant to EU packaging Directive.			
WEEE: 2012/19/EU and amendments thereof.	Any item provided to Bittium must be compliant with the requirements of EU WEEE Directive.			

Area of Requirement	Requirement
Quality requirements for production	
Measurement system capability	 For identified key measurement systems where a measurement system capability analysis has been mutually agreed: Type 1 Gage study: % Var (Repeatability) < 15 % Gage R&R study AIAG acceptance limits are applied: GRR < 10 %, Measurement system is capable. 10 % < GRR < 30 %, Measurement system acceptable upon Bittium consideration. GRR > 30 % Measurement system is unacceptable.
Process Capability	For identified key processes where a process capability analysis has been mutually agreed: C _{pk} target: > 1.67, P _{pk} target: > 1.33

Bittium Corporation, Ritaharjuntie 1, FI-90590 Oulu, FINLAND, +358 40 344 2000, +358 8 343 032 www.bittium.com, VAT number: FI10041295, Business ID: 1004129-5, Oulu

Bittium

Quality requirements for PCB: s			
Acceptability of electronic assemblies	IPC610: class 2 by default (Use of class 3 must be mutually agreed)		
Quality requirements for Batteries			
Regulative requirements Safety requirements	EU Battery Directive (2006/66/EC, EU 2023/1542) Safety requirements documented in: • UL 1642 • UL 2054 • IEC 62133-2 • UN38.3 • IEEE 1725, Lithium-Ion battery's compliance with the IEEE		
Visual Quality requirements	Standard for Rechargeable Batteries for Cellular Telephones Visual Quality Specification for Pouch Cell Batteries (002QW1028)		
Quality requirements for Chargers	visual quality specification for Fouch Cen Batteries (002QW1028)		
Safety requirements	 Chargers are required to have: CE marking UL certificate of compliance UL certificate of plastic case material IEEE 1725 compatibility 		
Quality requirements for Cables			
Acceptability of cable assemblies	 Quality Control of Cables (002QW1025) Criteria according to IPC/WHMA-A-620D class 2 by default unless manufacturing drawing has further specifications For fiber optic cables criteria according to IEC 61300-3-35. For single mode cables the criteria are defined using IEC 61300-3-35 criteria, return loss of ≥45dB, unless manufacturing drawing has further specifications 		
Visual quality requirements			
Visual quality requirement guideline	Visual Quality Specification (002QW1027)		
Visual quality requirements for screens	General Quality Specification for Integrated Display and Touch Window (002QW1020)		
Visual quality requirements for accessories	NCP Visual Quality Specification for Accessory Products (002QW1026)		
Painting and coating requirements	Painting and coating specification (002QW1019)		



Published by

Bittium Corporation. Ritaharjuntie 1 90590 Oulu Finland Phone: +358 40 344 2000 www.bittium.com

Legal Notice

Copyright 2024 Bittium. All rights reserved. The information contained herein is subject to change without notice. Bittium retains ownership of and all other rights to the material expressed in this document. Any reproduction of the content of this document without prior written permission from Bittium is prohibited.

Summary of Changes

Version	Date	Changes Between Releases	Status
4.0.0	2022.05.04	Appearance, environmental requirement and regulative requirement update	Approved