

SCHWEIZER Quality Standard (AA-SE-QM-008) (This is valid provided that no other explicitely agreed specification/agreement is in place)

1.	Management System		
	a.	Quality Management System: certified according IATF 16949	
	b.	Business Language is based on the location of production and the location of order. If location of	
		production and location of order is the same, business language will be the national language (Order	
		and production in Germany -> business language will be German. Order and production in China ->	
		business language will be Chinese). If location of production and the location of order are not in the	
		same country the business language will be English (Order in Germany, production in China ->	
		business language will be English). Documentation in foreign language will be charged according to	
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	~	Experiorities. Dreduct related requalification's are being executed aneaper veer regarding technology families. For	
	C.	Product-related requalification's are being executed once per year regarding technology families. For	
	ام	these requainization's test panels and PCB are being used that are technologically comparable.	
	a.	If requested, PPAP/PPF is done following submission level 2. Statistical proofs only when drawings	
		related to articles are being snown. The application of evaluations of test panel process capabilities is	
		admissible. One PCB is being measured.	
	e.	Quality features are only reported when they are shown on the customer's product-related drawing.	
		Quality features from cross references and general references to standards are not part of the	
		obligation to produce proof. Requirements beyond this are being charged according to expenditure.	
	f.	Documentation (FMEA, Control Plan, Flow Charts) is being done related to technology, based on	
		product families. Documentation related to articles are being charged according to expenditure.	
	g.	Audits of our customers are possible upon agreement. Audits of our customers at our suppliers are	
		subject to our supplier's approval.	
	h.	Change management: Customer information in case of changes are done according to our " Guideline	
		for Customer Notifications of Product and /or Process Changes (PCN) of Electronic Components	
		specified for Automotive Applications Revision 4.0 December 2019 issued by ZVEI e.V. (the German	
		electrical and electronic manufacturers' association).	
	i.	Contract verification constitutes a test for producibility of PCBs in the context of our processes. A	
		complete test of the correctness of the order specification is not part of the contract verification and	
		remains the responsibility of the ordering party.	
	j.	Specifications are only valid upon our explicit agreement. This is also valid for online accessible	
		specifications and standards (for example in a portal)	
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2.	Ter a. b. c. d. e. f. g. h. i.	chnical Specifications If no IPC-6012 class is defined we want to achieve the quality criteria of IPC-6012 class 2 and related IPC-A-600 class 2. The valid IPC-6012 and IPC-A-600 which is valid at the time of setting up the PCB at Schweizer. Proofs for IPC are being charged according to expenditure. Unless specified differently in the offer, tests accompanying a series are being executed according to SCHWEIZER's control plan, valid at the time of manufacturing. During the annual requalification, the usual Q-features of the PCB industry are being verified. A IPC-2221 valid design is necessary to implement IPC related requirements. Test on IPC Coupons will be only done according to agreement and will be charged according to expenditure. Regarding manufacturing tolerances, the SCHWEIZER PCB standard (LPS) applies. Upon request, we will gladly provide you with further technical details regarding LPS. Storage condition according to IPC/JEDEC J-STD 020 class 2a do apply. Further storage conditions must be agreed upon separately. Processing conditions: as the PCB's layout specified by the customer has a strong influence, the processing conditions must be adapted to the PCB by the buyer. The maximum temperature in the PCB during processing must not exceed 260 °C. In case of drilling diameters < 0,3 mm, the drilling might be closed by solder resist for technical reasons. The same applies in case of hot air levelling of the surface. This occurs due the layout reasons and does not constitute a defect. Changes in customer-related technical specifications are only valid for articles to be newly set-up. Chemical tin layer thickness is 0.8 µm, measured by X-ray fluorescence at a density of 6.15 g/cm ³ ; max. soldering temperature on the PCB: 260 °C, 10 sec. Article related adaptations of soldering profiles to the PCB fall to the processing party. If other chemical tin layer thickness is based on solder profile necessary, the chemical tin thickness must be ordered to fit the solder profile. Article r	



SCHWEIZER Quality Standard (AA-SE-QM-008) (This is valid provided that no other explicitely agreed specification/agreement is in place)

	k.	Processing conditions heavy copper PCB (copper thickness > 200 μ m, Inlay technology, IMS	
		technology, embedding technology, and so on): For soldering it must be considered that based on the	
		technology, the used soldered profile have a major impact on the generation of delamination's. The	
		used solder profile must be setup for the related article. Based on the impact of the layout, the used	
		solder technology and equipment it is not possible to provide a general solder profile. The solder	
		profile must be defined and setup by the user. Complains based defects which are caused or based	
		on none correct solder profile or expired shelf life or floor life can not be accepted (see 2 f, i, j)	
	Ι.	Micro- / Cross- section heavy copper PCB (copper thickness > 200 μm, Inlay technology, IMS	
		technology, embedding technology, and so on): Based on the technology it can happen the Micro-/	
		Cross-section can create cracks. It is not possible to avoid it in Micro- / Cross-section and will not be	
		rated as a quality issue.	
	m.	Multiple laminated PCB and heavy copper PCB (copper thickness > 200 μ m, Inlay technology, IMS	
		technology, embedding technology, and so on): For evaluation it is important that these type of PCB	
		have already seen an heat treatment process while manufacturing.	
3.	Complaint Management		
	a.	Complaints are being responded to within 10 working days. Should a response not be feasible within	
		this period of time, an interim report will be sent.	
	b.	Corrective actions that affect the know-how of the company are not being portrayed.	
	c.	To ensure a fast complain management please send the complain to	
		mailto:QC 3 Complaint Management@schweizer.ag	