



LABELLING OF SPECIFIED ASSEMBLIES

Guide for suppliers

Created by	Phone / Fax / Mail	Date
Purchasing AVL SET GmbH Spinnerei 8 D - 88239 Wangen im Allgäu www.avl-set.com	Phone +49 7522 91609-0 Fax +49 7522 91609-299 Einkauf-wangen@avl.com	2022-08-15

AVL SET GmbH

All rights reserved.

No part of this document may be reproduced in any form nor transmitted by any means of transmission, including the production of copies of any type, the production of recordings and any other type of storage or replaying without the prior express written permission of the company AVL SET GmbH, Spinnerei 8, 88239 Wangen im Allgäu/Germany

Contents

1.	OBJECT	3
2.	SCOPE	3
3.	IDENTIFICATION / LABELLING	4
3.1	Labelling of circuit boards and flat modules (PCB and PCBA)	4
3.1.1	Labels for unassembled printed circuit boards (PCB)	4
3.1.2	Labels for flat modules, assembled (PCBA).....	5
3.1.3	Additional labels for variant x: Definition of the variant	5
3.1.4	Supplementary labels for design deviations.....	7
3.2	Mechanical Parts (MET) & Specification Parts (SPC)	8
3.3	Labelling of units (BGR)	9
3.4	Labels for packaging / outer packaging	10
	CHANGE HISTORY	10

1. Object

The purpose of this guideline is to achieve uniform labelling and continuous traceability in order to meet the quality requirements of AVL SET GmbH and the requirements of ISO 9001:2015.

We ask you as a supplier and partner to comply with the requirements of the specified label guideline so that we can jointly develop and produce our products to meet the highest standards.


2. Scope

These instructions apply to suppliers of AVL SET GmbH.

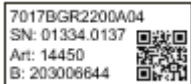
The Purchasing Department of AVL SET GmbH is responsible for the definition, maintenance and further development of these process instructions. Each supplier is required to point out any necessary changes in the documentation as required.

3. Identification / Labelling

3.1 Labelling of circuit boards and flat modules (PCB and PCBA)

3.1.1 Labels for unassembled printed circuit boards (PCB)		
Dimensions	9 x 20mm	(size may vary)
Type	Label Ident	ERT-A025x008Z1 (if necessary heat resistant for soldering process)
Glue	Non-detachable	
Material	Heat resistant material	(Suitable for soldering process)
Colour	White	
Font	Black / ARIAL	Thermal transfer
Lettering	Module number	Format: 9999BGR9999-99 Example: 7017BGR2200-04
	Serial number	Format: SN: 99999.9999 Example: SN: 01334.0137 Manufacturer number at AVL-SET (5 digits). SNR (4 digits) The manufacturer number and serial number must be separated by a full stop! If the article has serial numbers, this will be indicated in the manufacturing documents. The manufacturer number (supplier number) is indicated in the order header.
	ERP article number	Format: Art: 99999 Example: Art: 14450
	Order number	Format: B: 99999999 Example: B: 203006644 Order number see order header
Barcode	QR Code accord. to ISO/IEC 18004:2006	QR Code should contain the serial number. Format: 99999.9999 Example: 01334.0137
Example label for circuit boards (PCB)		

Labelling of specified assemblies

3.1.2 Labels for flat modules, assembled (PCBA)		
Dimensions	9 x 20mm	(size may vary)
Type	Label Ident	ERT-A025x008Z1 (if necessary heat resistant for soldering process)
Glue	Non-detachable	
Material	Heat resistant material	(Suitable for soldering process)
Colour	White	
Font	Black / ARIAL	Thermal transfer
Lettering	Module number	Format: 9999BGR9999X99 Example: 7017BGR2200A04
	Serial number	Format: SN: 99999.9999 Example: SN: 01334.0137 Manufacturer number at AVL-SET (5 digits). SNR (4 digits) The manufacturer number and serial number must be separated by a full stop! If the article has serial numbers, this will be indicated in the manufacturing documents. The manufacturer number (supplier number) is indicated in the order header.
	ERP article number	Format: Art: 99999 Example: Art: 14450
	Order number	Format: B: 99999999 Example: B: 203006644 Order number see order header
Barcode	QR Code accord. to ISO/IEC 18004:2006 Minimum 6mm x 6mm	QR Code should contain the ERP article number , serial number and optional: Design deviation (BAW) . These are separated by comma. Format: 88888,99999.9999,BAW99 Beispiel für BGR mit BAW: 14450,01334.0137,BAW99 Beispiel für BGR ohne BAW: 14450,01334.0137
Example label for flat module (PCBA) with design deviation		

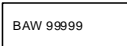
3.1.3 Additional labels for variant x: Definition of the variant		
If the assembly number has an x as variant, the goods must be provided with a supplementary label. (Example variant x: 7017BGR2200x04)		
Dimension	5 x 10mm	(Size may vary)
Type	N.n.	(If necessary heat resistant for soldering process)

Labelling of specified assemblies

Glue	Not removeable	
Material	Heat resistant material	(Suitable for soldering process)
Colour	White	
Font	Black / ARIAL	Thermal transfer
Lettering	Variant	[] Type of variant e.g. [] 36 V [] 48 V
Example label variant x / embossing		<div style="border: 1px solid black; padding: 2px; display: inline-block;"> <input type="checkbox"/> Variante A <input type="checkbox"/> Variante B </div>

3.1.4 Supplementary labels for design deviations

Construction deviations from product specifications must be notified in advance to the SPS Purchasing Department and approved by the SPS Product Manager. For traceability purposes SPS assigns a construction deviation number with the release of the construction deviation. The goods of the affected delivery as well as the delivery note must be provided by the supplier with a corresponding indication of the construction deviation.

Dimension	5 x 10mm	(Size may vary)
Type	N.n.	(If necessary heat resistant material for soldering process)
Glue	Not removeable	
Material	Heat resistant material	(Suitable for soldering process)
Farbe	Weiß	
Font	Black / ARIAL	Thermal transfer
Lettering	Deviation of dimension	Format: BAW 99999 Example: BAW 00044 Number of SPS - Deviation of dimension number
Example Label Deviation of dimension		

3.2 Mechanical Parts (MET) & Specification Parts (SPC)

Labels for Mechanical Parts (MET) & Specification Parts (SPC)		
Dimension	25,4 x 50,8 mm	(Size may vary)
Type	Label Ident	ERT-J051X05Z1 (Removeable)
Glue	Removeable	
Material	Polypropylene	(Suitable for soldering process)
Colour	White	
Font	Black / ARIAL	Thermal transfer
Lettering	Drawing number	Format: 9999MET9999-99 / 9999SPC9999-99 Example: 7017MET2200-04 / 7017SPC2200-04
	Serial number	Format: SN: 99999.9999 Example: SN: 01334.0137 Serial numbers are made up: Manufacturer number for AVL SET (5 digits).SNR (4 digits) The manufacturer number and serial number must be separated by a period (!) If the article has serial numbers, this will be indicated in the manufacturing documents. The manufacturer number (supplier number) is indicated in the order header.
	ERP Article number	Format: Art: 99999 Example: Art: 14450
	Manufacturer number	Format: Art: 99999 Example: Art: 14450 Supplier number see order header For serial number-guided parts, the manufacturer number does not need to be listed again.
	Order number	Format: B: 99999999 Example: B: 203006644 Order number see order header.
Barcode	Later barcode if necessary 128	
Example label mechanical part	<p><i>Without serial number</i></p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>7055MET2200-04 MAN: 01139 Art: 14452 B: 203008470</p> </div> <p><i>With serial number</i></p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>7055MET2200-04 SN: 01334.0137 Art:14452 B: 203008470</p> </div>	

3.3 Labelling of units (BGR)

Labels for units (BGR)			
Dimension	25,4 x 50,8 mm	(Size may vary)	
Glue	Not Removeable		
Material	Polypropylen	or comparable properties	
Colour	White		
Font	Black / ARIAL	Thermal transfer	
Lettering	Module number	Format: 9999BGR9999X99 Example: 7017BGR2200A04	
	Serial number	Format: SN: 99999.9999 Example: SN: 01334.0137 Serial numbers are made up: Manufacturer number for AVL SET (5 digits).SNR (4 digits) The manufacturer number and serial number must be separated by a period (!) If the article has serial numbers, this will be indicated in the manufacturing documents. The manufacturer number (supplier number) is indicated in the order header.	
	ERP Article number	Format: Art: 99999 Beispiel: Art: 14450	
	Order number	Format: B: 99999999 Example: B: 203006644 Order number see order header.	
Example label for unit (BGR)	<table border="1" style="width: 100px; height: 40px;"> <tr> <td>7017BGR2200A04 SN: 01334.0137 Art: 14450 B: 203006644</td> </tr> </table>		7017BGR2200A04 SN: 01334.0137 Art: 14450 B: 203006644
7017BGR2200A04 SN: 01334.0137 Art: 14450 B: 203006644			

3.4 Labels for packaging / outer packaging

Labels for packaging / outer packaging		
Dimension	25,4 x 50,8 mm	(Size may vary)
Type	Label Ident	ERT-J051X05Z1 (Removeable)
Material	Polypropylene	(Suitable for soldering process)
Colour	White	
Font	Black / ARIAL	Thermal transfer
Lettering	ERP Article number	Format: Art: 99999 Example: Art: 14450
	Quantity of packaging	Format: Quantity: 99 pieces Quantity depends on delivery quantity Format: 99999999
	Order number	Order number see order header
Barcode	Later barcode if necessary 128	
Example label packaging / outer packaging		Art:14452 Quantity: xx pieces B: 203008470

Change history

Revision	Date	Reason for Change
06	14.01.2022	Splitting PCB and PCBA Adding QR Code
07	04.08.2022	Adapting QR Code requirements Change of adress to Spinnerei 8