

From AE/MFT22	<b>Instruction</b> MAT-Label for Raw Wafer Appendix to Bosch-AE Instruction	Issue/Amendment V20190903  Our Reference Harold Ebeling	Page 1/6  Date September 3, 2019
------------------	---	---	---

## Appendix to Bosch-AE Instruction MAT-Label

### Requirement for Raw Wafer

based on

### Requirements on Marking of Goods and Accompanying Information for Purchased Production Parts

(MAT-Label)

This appendix to the “Bosch-AE Instruction MAT-Label” is based on the specification “Requirements on Marking of Goods and Accompanying Information for Purchased Production Parts (MAT-Label), established in collaboration with Bosch, Siemens, Hella, Continental and Zollner.

From AE/MFT22	<b>Instruction</b>  MAT-Label for Raw Wafer Appendix to Bosch-AE Instruction	Issue/Amendment V20190903	Page 2/6
		Our Reference Harold Ebeling	Date September 3, 2019

## 0 Table of contents

<b>0</b>	<b>Table of contents .....</b>	<b>2</b>
<b>1</b>	<b>MAT-Label for Raw Wafer .....</b>	<b>3</b>
<b>1.1</b>	<b>MAT-Label Layout.....</b>	<b>3</b>
<b>1.2</b>	<b>Data Matrix Code (DMC) .....</b>	<b>3</b>
<b>1.3</b>	<b>Details for Raw Wafer .....</b>	<b>4</b>
1.3.1	Customer Part Number (Scheme Pos. 2).....	5
1.3.2	Ordering Code (Scheme Pos. 4).....	5
1.3.3	Part Description (Part Name) (Scheme Pos. 5) .....	5
1.3.4	Revision Level/Index (Scheme Pos. 8) .....	6
1.3.5	Additional Part Information (Scheme Pos. 9) .....	6
1.3.6	Supplier Data (Scheme Pos. 23) .....	6

From AE/MFT22	<b>Instruction</b>  MAT-Label for Raw Wafer Appendix to Bosch-AE Instruction	Issue/Amendment V20190903	Page 3/6
		Our Reference Harold Ebeling	Date September 3, 2019

## 1 MAT-Label for Raw Wafer


This document describes the characteristic of the MAT-Label for the product class Raw Wafer. It refers to the “Bosch-AE Instruction MAT-Label”. All fields having special values are described.

### 1.1 MAT-Label Layout

A Label sample for Raw Wafer is shown below.

A scheme with the red current numbers (1-23) identifies each field and can be found in the “Bosch-AE Instruction MAT-Label”.

The contents of the following fields differ from this instruction for Raw Wafer: 2, 5, 8, 9 and 23.

	⑤ Part Name: PW, n++ As		
	② Part No.: 12701080XX	Quantity: 25	
	Man. Date: 20190320	⑧ Index: 0.0	
	Exp. Date: 20991231	⑳ Supplier Data: MM	
⑨ Add. Info: 1270008YYY	1. Batch: XY468.1		
Man. Part No.: SL105103MAA-S	2. Batch:		
Supplier-ID: 777	MS-Level: 1		
Supplier: Sample_CO	Purchase: 55197828		
Supplier Loc.: TWN-HSINCHUF	Shipping Note: 2153698754/85		
Package-ID: S20190408AXBA			<b>RoHS</b>

### 1.2 Data Matrix Code (DMC)

Sample String contents of DMC:

```
[ ]>@06@12S0002@P12701080XX@1P SL105103MAA-S@31P SL105103MAA-S@12V22446688@10V TWN-HSINCHU
F@2P0.0@20P1270008YYY@6D20190320@14D20991231@30PY@Z1@K55197828@16K2153698754/85@V777@
3SS20190408AXBA@Q25NAR000@20T1@1TXY468.1@2T@1ZMM@@
```

[ ]>@06 = prefix

@ = separator

nX = identifier

@@ = suffix

From AE/MFT22	<b>Instruction</b>  MAT-Label for Raw Wafer Appendix to Bosch-AE Instruction	Issue/Amendment V20190903	Page 4/6
		Our Reference Harold Ebeling	Date September 3, 2019

### 1.3 Details for Raw Wafer

Legend:

Field 4. Ordering Code has not to be printed and is identical with Field 3. Manufacturer Part Number. The contents of the red current numbers 2, 5, 8, 9 and 23 vary for Raw Wafer and can be seen in the scheme below:

No.	Data Field	Proposals for field description	Definition / Description	Data Identifier	Length	Format N = Numerical, A/N = Alphanumerical, D = day, M = month, Y = year	Example	Data Matrix (Machine Readable)	Printed Text
2.	Customer Part Number	Part No.	Collective Part No.	P	10	A/N	1270108XXX	yes	yes
4.	Ordering Code	Ord. Code	Same value as Field 3. Manufacturer Part Number	31P	Max. 35	A/N	SL105103MAA-S	yes	no
5.	Part Description (Part Name)	Part Name	Notation according Individual Part Specification	-	Max. 20	A/N	PW, n++ As	no	yes
8.	Revision Level / Index	Index	Revision Version of Individual Part Specification	2P	Max. 14	A/N	0.0	yes	yes
9.	Additional Part Information	Add. Info	Specification No.	20P	10	A/N	1270008YYY	yes	yes
23.	Supplier Data	Supplier Data	Vendor Code	1Z	2	A/N	MM	yes	yes

From AE/MFT22	<b>Instruction</b>  MAT-Label for Raw Wafer Appendix to Bosch-AE Instruction	Issue/Amendment V20190903	Page 5/6
		Our Reference Harold Ebeling	Date September 3, 2019

### 1.3.1 Customer Part Number (Scheme Pos. 2)

The Customer Part Number equals the Collective Part No., which assigns specific material. It consists of 10 digits and is assigned by BOSCH. Here, the Customer Part No. can be derived from the "Individual Part Specification" as marked in the picture below.

 <b>BOSCH</b> <small>Technik fürs Leben</small> RtP1	<b>Individual Part Specification</b>	<b>1 270 008 YYY</b>
	Einzelbestellvorschrift	Rev 0.0
	<b>200 mm PW, n++ As</b>	Seite 1 von 5

Supplier / Lieferant	<b>Supplier</b>
Specification No. / Spezifikationsnr.	<b>1 270 008 YYY</b>
Collective Part No. / Sammel-Nr.	<b>1 270 108 OXX</b>
Production site / Produktionsstandort	Crystal qualified at Supplier Site Wafering qualified at Supplier Site
Date of Origin / Erstellungsdatum	01.02.2017
Original	
Revision of / Überarbeitung vom	

### 1.3.2 Ordering Code (Scheme Pos. 4)

Field is not printed, but part of the Data Matrix Code with same value as Field Manufacturer Part Number (No. 3).

### 1.3.3 Part Description (Part Name) (Scheme Pos. 5)

The string following the wafer size as part of the title is relevant for the field Part Description / Part Name, as marked below:

 <b>BOSCH</b> <small>Technik fürs Leben</small> RtP1	<b>Individual Part Specification</b>	<b>1 270 008 YYY</b>
	Einzelbestellvorschrift	Rev 0.0
	<b>200 mm PW, n++ As</b>	Seite 1 von 5

Supplier / Lieferant	<b>Supplier</b>
Specification No. / Spezifikationsnr.	<b>1 270 008 YYY</b>
Collective Part No. / Sammel-Nr.	<b>1 270 108 OXX</b>
Production site / Produktionsstandort	Crystal qualified at Supplier Site Wafering qualified at Supplier Site
Date of Origin / Erstellungsdatum	01.02.2017
Original	
Revision of / Überarbeitung vom	

From AE/MFT22	<b>Instruction</b>	Issue/Amendment V20190903	Page 6/6
	MAT-Label for Raw Wafer Appendix to Bosch-AE Instruction	Our Reference Harold Ebeling	Date September 3, 2019

### 1.3.4 Revision Level/Index (Scheme Pos. 8)

The information can be seen in the Individual Part Specification, as shown below. In this example, the number "0.0" including the decimal point is written in the DMC and printed on the label.

 <b>BOSCH</b> Technik fürs Leben RtP1	<b>Individual Part Specification</b>	<b>1 270 008 YYY</b>
	Einzelbestellvorschrift	Re <b>0.0</b>
	<b>200 mm PW, n++ As</b>	Seite 1 von 5

Supplier / Lieferant	<b>Supplier</b>
Specification No. / Spezifikationsnr.	<b>1 270 008 YYY</b>
Collective Part No. / Sammel-Nr.	<b>1 270 108 OXX</b>
Production site / Produktionsstandort	Crystal qualified at Supplier Site Wafering qualified at Supplier Site
Date of Origin / Erstellungsdatum	01.02.2017
Original	
Revision of / Überarbeitung vom	

### 1.3.5 Additional Part Information (Scheme Pos. 9)

Please use the number of the Individual Part Specification as contents for the field Additional Part Information:

 <b>BOSCH</b> Technik fürs Leben RtP1	<b>Individual Part Specification</b>	<b>1 270 008 YYY</b>
	Einzelbestellvorschrift	Rev 0.0
	<b>200 mm PW, n++ As</b>	Seite 1 von 5

Supplier / Lieferant	<b>Supplier</b>
Specification No. / Spezifikationsnr.	<b>1 270 008 YYY</b>
Collective Part No. / Sammel-Nr.	<b>1 270 108 OXX</b>
Production site / Produktionsstandort	Crystal qualified at Supplier Site Wafering qualified at Supplier Site
Date of Origin / Erstellungsdatum	01.02.2017
Original	
Revision of / Überarbeitung vom	

### 1.3.6 Supplier Data (Scheme Pos. 23)

This field is used for the Vendor Code at your production site as defined in the SEMI AUX001-0613 list of wafer supplier identification codes.