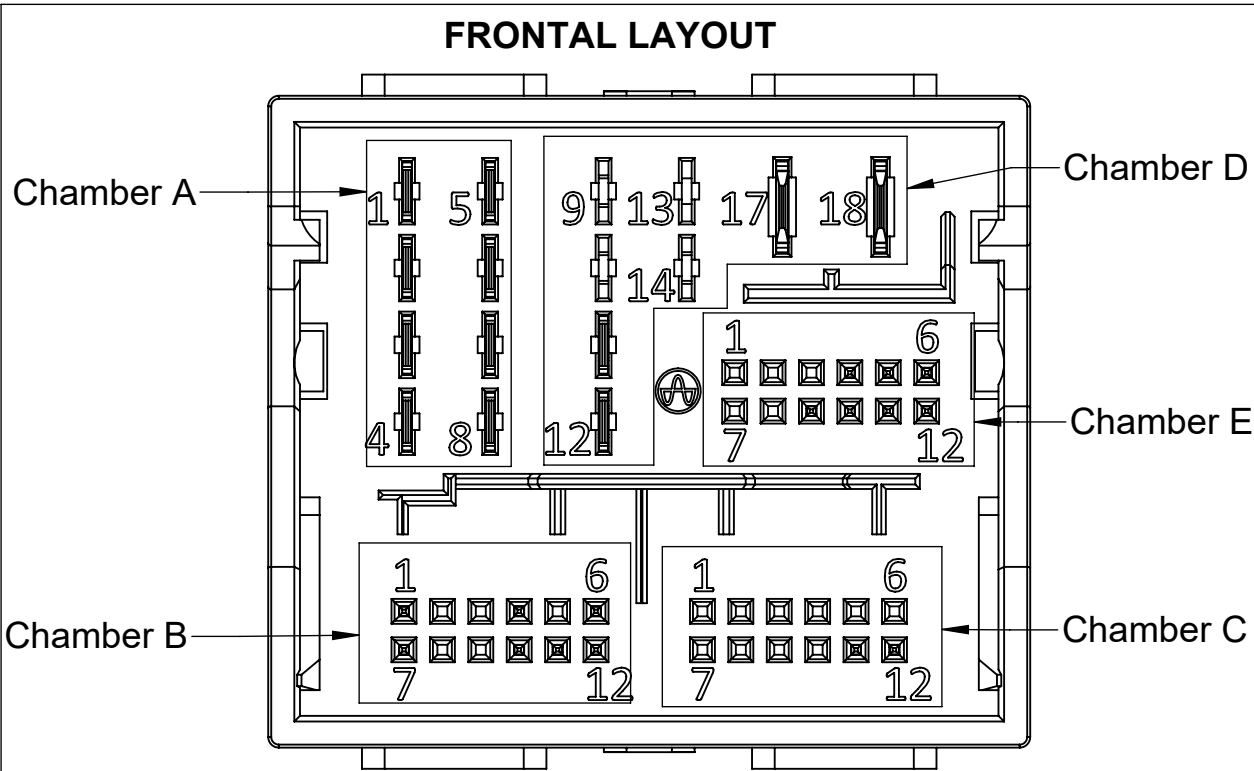
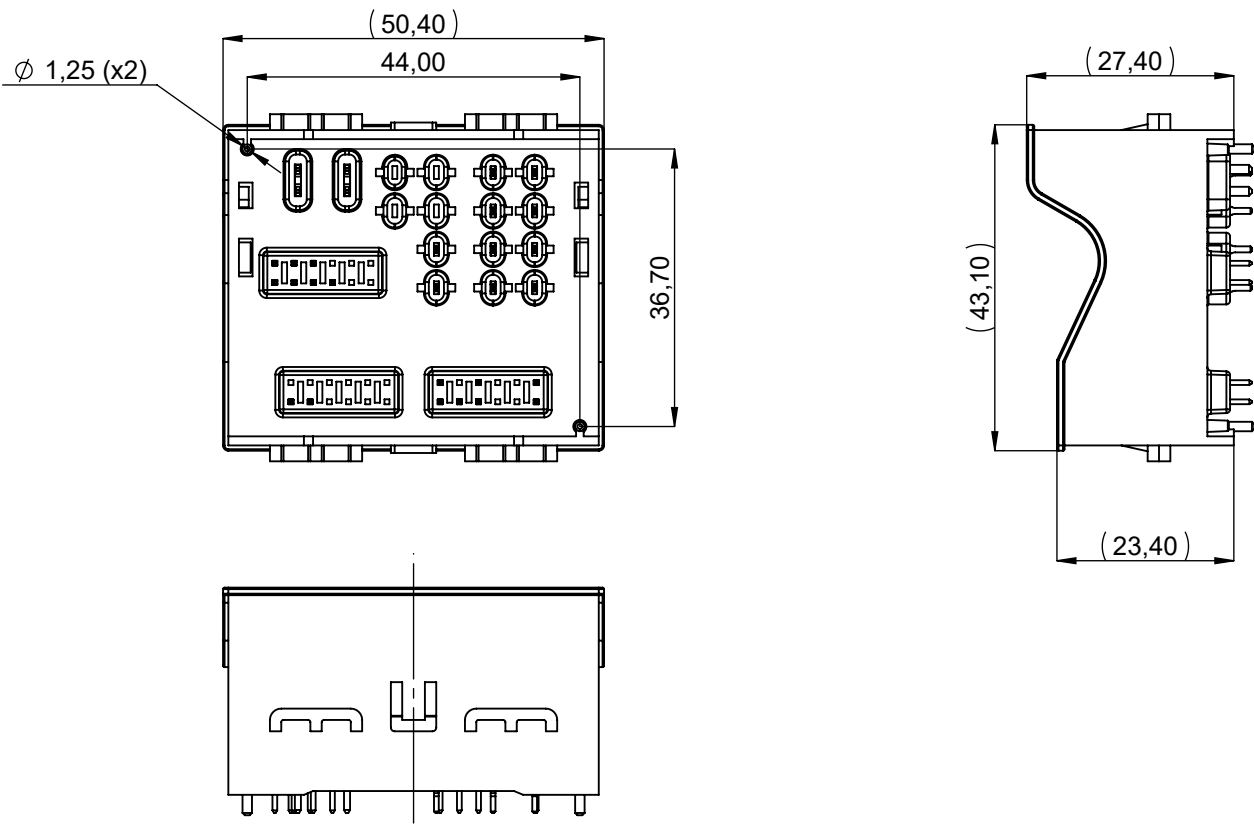


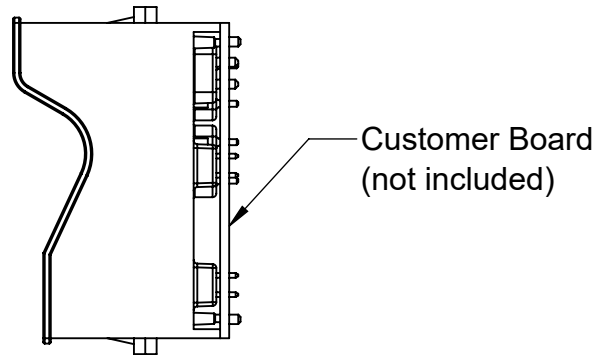
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NOTE:
Unless otherwise specified frontal pin layout compatible to drawing TAB.016.038.AS.

VIEW WITH CUSTOMER BOARD



- NOTES:**
1. This drawing represents the only valid technical specification. Data which is not explicitly mentioned on this drawing will not be supported by YED.
 2. Connector suitable for mass production.
 3. (**) tolerance of customer board thickness tbd by customer
 4. Connector suitable for TH (Through Hole) soldering at customer process.

KUNDENFREIGABE / CUSTOMER APPROVAL

Firma / Company :

Unterschrift / Signature : _____ Datum / Date : _____

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Specification/Drawing subject to alteration without prior notice **RoHS compliant acc. to directive 2011/65/EU**

PIN DIMENSIONS FOR BOARD LAYOUT

CHAMBER	PIN REFERENCE	PIN THICKNESS [mm]	PIN WIDTH [mm]	MATERIAL	PLATING/COMMENTS
B	1 to 12	0,63	0,63	Copper-Alloy	Tin
C	1 to 12	0,63	0,63	Copper-Alloy	Tin
E	1 to 12	0,63	0,63	Copper-Alloy	Tin
D	17 to 18	0,80	1,20	Copper-Alloy	Tin
A	1 to 8	0,63	0,80	Copper-Alloy	Tin
D	9 to 14	0,63	0,80	Copper-Alloy	Tin

Unless otherwise specified :
Dimensions are in millimeters
TOLERANCES
ISO 2768-1 f (fein)

REV.	REVISION DESCRIPTION	INITIALS	REV. DATE
△			
△			
△			
△			



Order / Article No. 86-01863

DO NOT SCALE DRAWING

CLASSIFICATION: QuadLock connector, 52pins

NOTES:

A3

ANGLE PROJECTION:

FIRST

NAME	DATE
CREATED T100	17.01.2020
MODIFIED T100	27.01.2020
RELEASED M190	27.01.2020

TITLE: Y-QLS-52P-LL-THX1-P-EDC

DWG NO.: Customer-P2786A22

REVISION: 001

WEIGHT:

SUBREV01

SCALE: 2:1

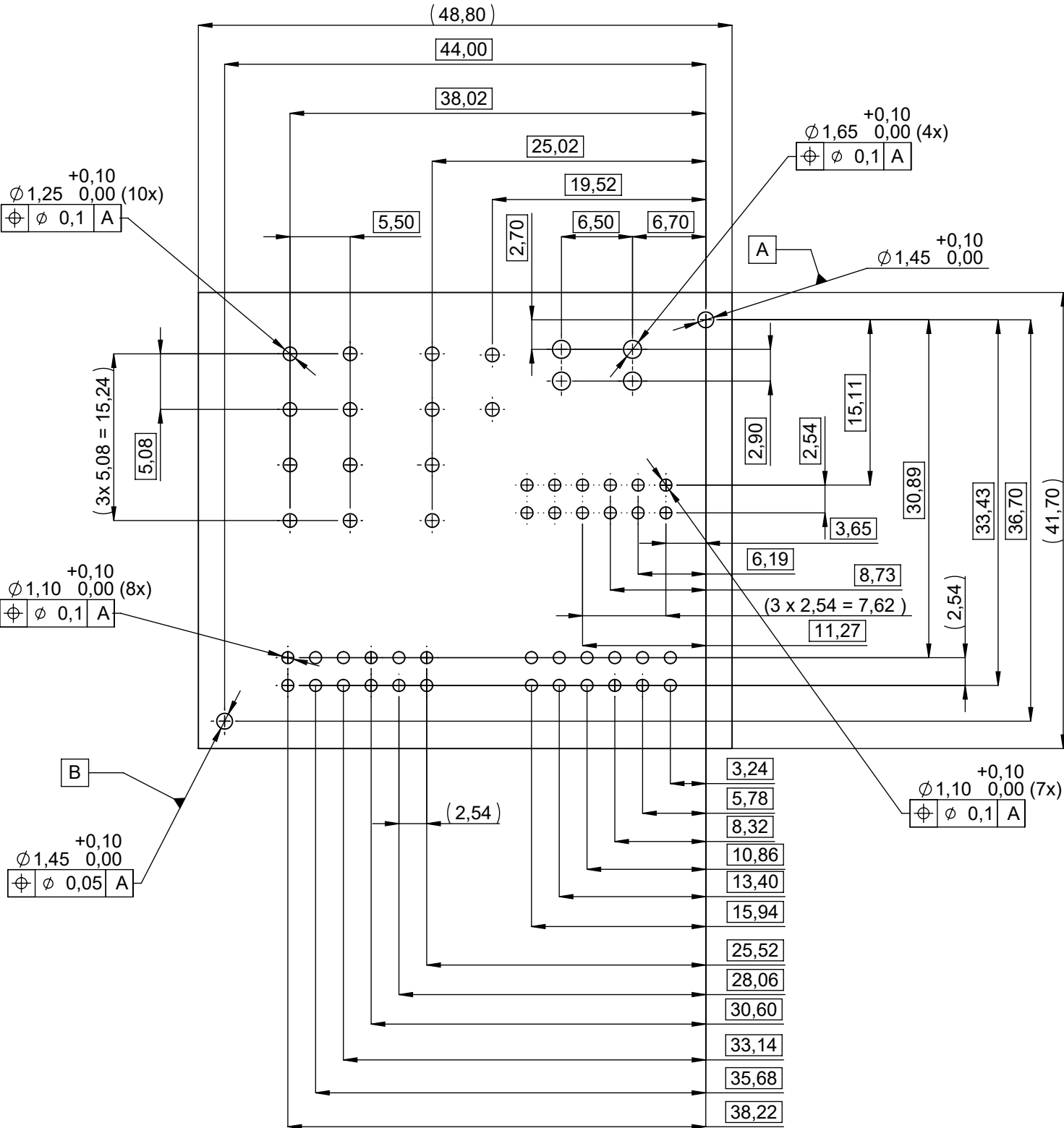
SHEET 1 OF 5

A3 - ASSEMBLY

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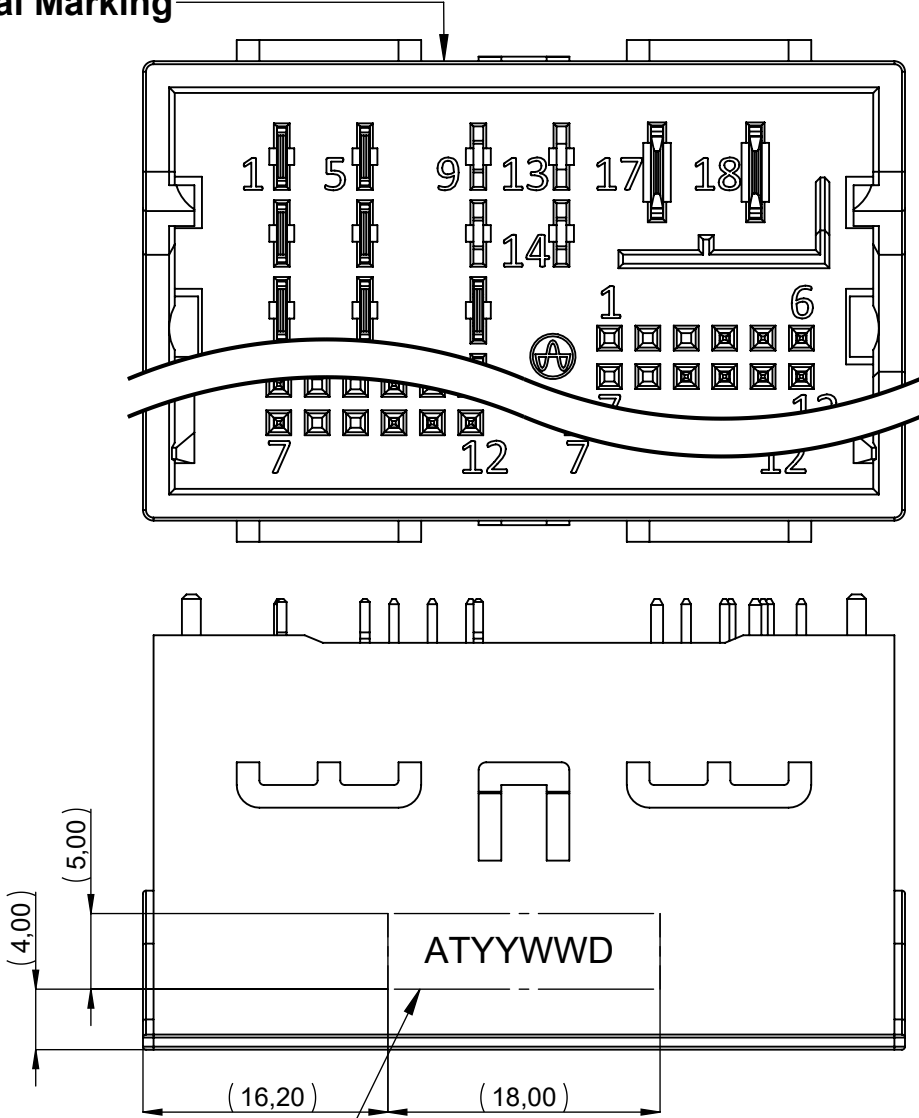
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RECOMMENDED CUSTOMER BOARD LAYOUT



PRODUCT MARKING

Position of Datecode and Material Marking



DATE CODE

YY: Last 2 numbers of production year
WW: Calender week of production
D: Week day of production

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TOLERANCES
ISO 2768-1 f (fein)

REV.	REVISION DESCRIPTION	INITIALS	REV. DATE
△			
△			
△			
△			

Order / Article No. 86-01863

DO NOT SCALE DRAWING

CLASSIFICATION: QuadLock connector, 52pins

NOTES:

A3

ANGLE PROJECTION:

FIRST

NAME	DATE
CREATED T100	17.01.2020
MODIFIED T100	27.01.2020
RELEASED M190	27.01.2020

TITLE: Y-QLS-52P-LL-THX1-P-EDC

DWG NO.: Customer-P2786A22

REVISION: 001

WEIGHT:

SUBREV01

SCALE: 2:1

SHEET 2 OF 5

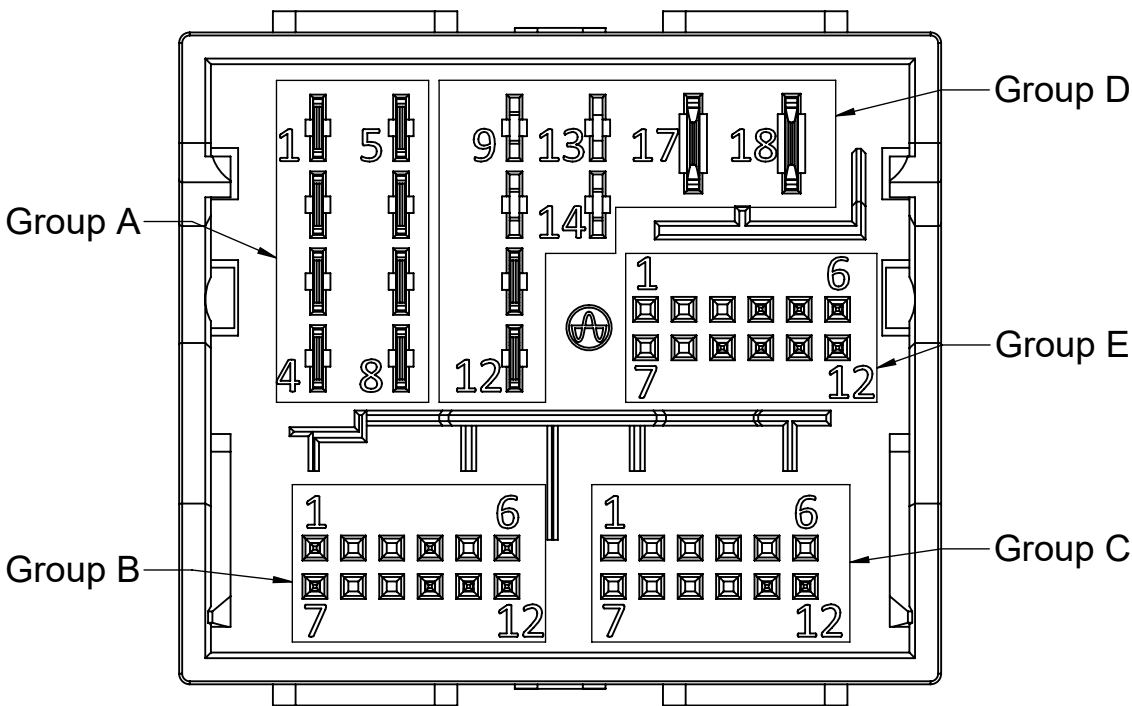
A3 - ASSEMBLY

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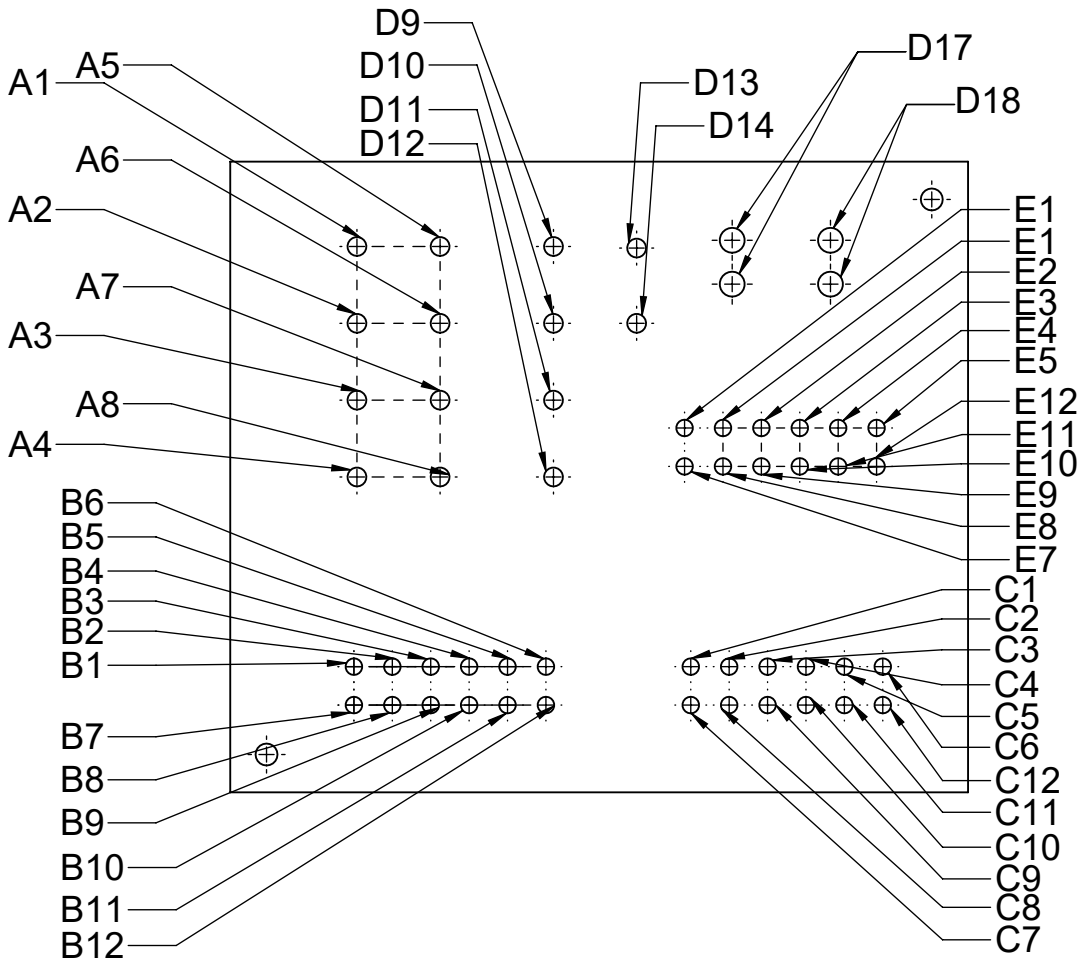
Frontal contact layout		Comment
Group	contact number	
A	1	
A	2	
A	3	
A	4	
A	5	
A	6	
A	7	
A	8	
B	1	
B	2	
B	3	
B	4	
B	5	
B	6	
B	7	
B	8	
B	9	
B	10	
B	11	
B	12	
C	1	
C	2	
C	3	
C	4	
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C	7	
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FRONTAL LAYOUT CONTACT DEFINITION



Customer Board
(view on top side of the board)







Arrangement of frontal layout of connector contacts applied to customer board layout



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Unless otherwise specified : Dimensions are in millimeters TOLERANCES ISO 2768-1 f (fein)		REV.	REVISION DESCRIPTION		INITIALS	REV. DATE	<div>YAMAICHI ELECTRONICS</div>	
								
								
								
								
Order / Article No. 86-01863		DO NOT SCALE DRAWING				CLASSIFICATION: QuadLock connector, 52pins		
NOTES: A3	ANGLE PROJECTION:	CREATED	NAME	DATE	TITLE:			
	 FIRST	MODIFIED	T100	17.01.2020	Y-QLS-52P-LL-THX1-P-EDC			
		RELEASED	M190	27.01.2020	DWG NO.:			
					Customer-P2786A22			
							REVISION: 001	
WEIGHT:		SUBREV	01		SCALE: 1:1		SHEET 3 OF 5	A3 - ASSEMBLY

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<div>GENERAL SPECIFICATION</div> <div><div>Functional temperature: -40°C to +85°C</div><div>Soldering process:<div>Suitable for through hole wave soldering</div><div>Not suitable for Through Hole Reflow (THR)</div></div></div>																																																																																														
<div>INSULATOR MATERIAL</div> <div><div>Plastic material suitable for wave soldering</div><div>Flammability class UL94-V0</div></div>																																																																																														
<div>ELECTRICAL REQUIREMENTS</div> <div><div>See drawing sheet 5 for details</div></div>																																																																																														
<div>PACKAGING</div> <div><div>Default tray (non-ESD) packaging</div></div>																																																																																														
<div>Yamaichi acts with all markings of the product exclusively on behalf of the customer as service provider and not as distributor. Yamaichi is not aware of the customer's end use/application. The customer indemnifies Yamaichi from any liability towards third parties in connection with the marking - with the exception of the legal exclusions of liability according to § 309 No. 7 BGB. Specification/Drawing subject to alteration without prior notice</div> <div>RoHS compliant acc. to directive 2011/65/EU</div>																																																																																														
1	2	3	4	<table><tr><td colspan="2">Unless otherwise specified : Dimensions are in millimeters</td><td>REV.</td><td colspan="2">REVISION DESCRIPTION</td><td>INITIALS</td><td>REV. DATE</td></tr><tr><td colspan="2"></td><td>△</td><td colspan="2"></td><td></td><td></td></tr><tr><td colspan="2">TOLERANCES</td><td>△</td><td colspan="2"></td><td></td><td></td></tr><tr><td colspan="2">ISO 2768-1 f (fein)</td><td>△</td><td colspan="2"></td><td></td><td></td></tr><tr><td colspan="2"></td><td>△</td><td colspan="2"></td><td></td><td></td></tr><tr><td colspan="2"></td><td>△</td><td colspan="2"></td><td></td><td></td></tr><tr><td colspan="2">Order / Article No. 86-01863</td><td colspan="2">DO NOT SCALE DRAWING</td><td colspan="3">CLASSIFICATION: QuadLock connector, 52pins</td></tr><tr><td colspan="2">NOTES: A3</td><td colspan="2">NAME</td><td colspan="2">DATE</td><td>TITLE: Y-QLS-52P-LL-THX1-P-EDC</td></tr><tr><td colspan="2" rowspan="3"><div>ANGLE PROJECTION: FIRST</div></td><td>CREATED</td><td>T100</td><td colspan="2">17.01.2020</td><td rowspan="3">DWG NO.: Customer-P2786A22</td></tr><tr><td>MODIFIED</td><td>T100</td><td colspan="2">27.01.2020</td></tr><tr><td>RELEASED</td><td>M190</td><td colspan="2">27.01.2020</td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td>REVISION: 001</td></tr><tr><td colspan="2">WEIGHT:</td><td colspan="2">SUBREV</td><td colspan="2">01</td><td>SCALE: 1:1</td></tr></table>				Unless otherwise specified : Dimensions are in millimeters		REV.	REVISION DESCRIPTION		INITIALS	REV. DATE			△					TOLERANCES		△					ISO 2768-1 f (fein)		△							△							△					Order / Article No. 86-01863		DO NOT SCALE DRAWING		CLASSIFICATION: QuadLock connector, 52pins			NOTES: A3		NAME		DATE		TITLE: Y-QLS-52P-LL-THX1-P-EDC	<div>ANGLE PROJECTION: FIRST</div>		CREATED	T100	17.01.2020		DWG NO.: Customer-P2786A22	MODIFIED	T100	27.01.2020		RELEASED	M190	27.01.2020								REVISION: 001	WEIGHT:		SUBREV		01		SCALE: 1:1	SHEET 4 OF 5	A3 - ASSEMBLY
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Electrical specification

Group A	
Pin	Requirement
A1	I _{max} = 4,5A eff; U = 14,4V
A2	I _{max} = 4,5A eff; U = 14,4V
A3	I _{max} = 4,5A eff; U = 14,4V
A4	I _{max} = 4,5A eff; U = 14,4V
A5	I _{max} = 4,5A eff; U = 14,4V
A6	I _{max} = 4,5A eff; U = 14,4V
A7	I _{max} = 4,5A eff; U = 14,4V
A8	I _{max} = 4,5A eff; U = 14,4V

Group B	
Pin	Requirement
B1	I _{max} = 100mA (Continuous current)
B2	I _{max} = 100mA (Continuous current)
B3	I _{max} = 100mA (Continuous current)
B4	I _{max} = 100mA (Continuous current)
B5	I _{max} = 100mA (Continuous current)
B6	I _{max} = 100mA (Continuous current)
B7	I _{max} = 100mA (Continuous current)
B8	I _{max} = 100mA (Continuous current)
B9	I _{max} = 100mA (Continuous current)
B10	I _{max} = 100mA (Continuous current)
B11	I _{max} = 100mA (Continuous current)
B12	I _{max} = 100mA (Continuous current)

Group C	
Pin	Requirement
C1	I _{max} = 100mA (Continuous current)
C2	I _{max} = 100mA (Continuous current)
C3	I _{max} = 100mA (Continuous current)
C4	I _{max} = 100mA (Continuous current)
C5	I _{max} = 100mA (Continuous current)
C6	I _{max} = 100mA (Continuous current)
C7	I _{max} = 100mA (Continuous current)
C8	I _{max} = 100mA (Continuous current)
C9	I _{max} = 100mA (Continuous current)
C10	I _{max} = 100mA (Continuous current)
C11	I _{max} = 100mA (Continuous current)
C12	I _{max} = 100mA (Continuous current)

Group D	
Pin	Requirement
D9	I _{max} = 100mA (Continuous current)
D10	I _{max} = 100mA (Continuous current)
D11	I _{max} = 100mA (Continuous current)
D12	I _{max} = 100mA (Continuous current)
D13	I _{max} = 100mA (Continuous current)
D14	I _{max} = 100mA (Continuous current)
D17	I _{max} = 16A eff; U = 14,4V
D18	I _{max} = 16A eff; U = 14,4V

Group E	
Pin	Requirement
E1	I _{max} = 100mA (Continuous current)
E2	I _{max} = 100mA (Continuous current)
E3	I _{max} = 100mA (Continuous current)
E4	I _{max} = 2100mA (Continuous current)
E5	I _{max} = 1000mA (Continuous current)
E6	I _{max} = 100mA (Continuous current)
E7	I _{max} = 100mA (Continuous current)
E8	I _{max} = 100mA (Continuous current)
E9	I _{max} = 100mA (Continuous current)
E10	I _{max} = 2100mA (Continuous current)
E11	I _{max} = 100mA (Continuous current)
E12	I _{max} = 100mA (Continuous current)

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Order / Article No. 86-01863

DO NOT SCALE DRAWING

NOTES:
A3

ANGLE PROJECTION:
FIRST

WEIGHT:

REV.
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REVISION DESCRIPTION

INITIALS

REV. DATE

CLASSIFICATION:
QuadLock connector, 52pins

TITLE:
Y-QLS-52P-LL-THX1-P-EDC

DWG NO.:
Customer-P2786A22

REVISION:
001

SUBREV01

SCALE: 1:1

SHEET 5 OF 5

A3 - ASSEMBLY

