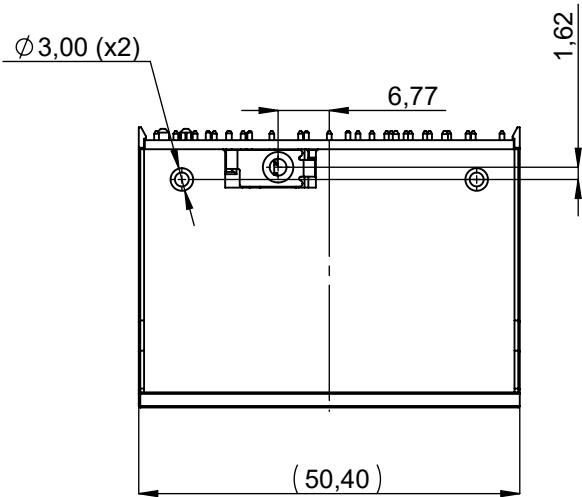
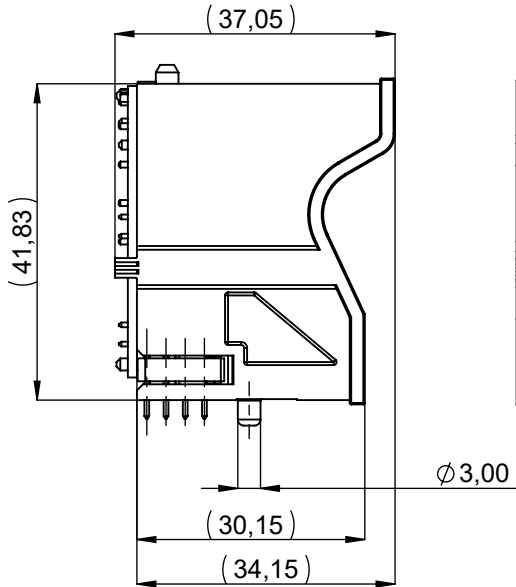
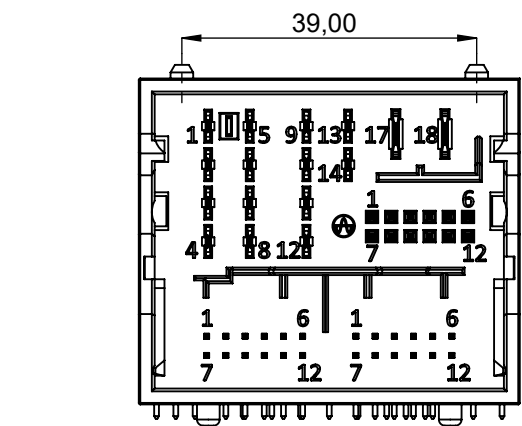
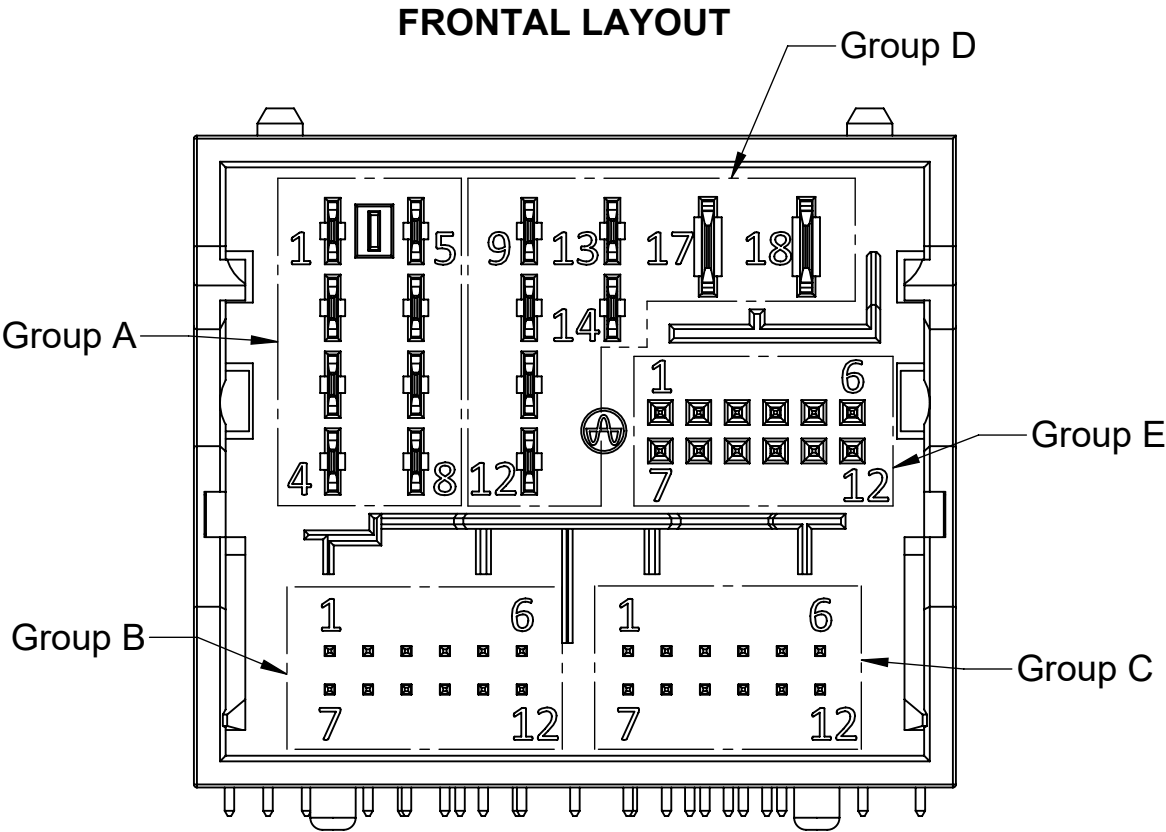


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PART LIST				
KEY	COMPONENT	AMOUNT	MATERIAL	COMMENTS / PLATING
1	Main insulator	1	Reinforced plastic	suitable for Reflow soldering/plating n.a.
2	Spacer	1	Reinforced plastic	suitable for Reflow soldering/plating n.a.
3	POW-Pins	2	Copper-Alloy	Tin
4	Loudspeaker-Pins	14	Copper-Alloy	Tin
5	Angled wires	12	Copper-Alloy	Tin
6	Direct long L-wires	12	Copper-Alloy	Tin
7	Direct short L-wires	12	Copper-Alloy	Tin
8	PCB long L-wires	15	Copper-Alloy	Tin
9	PCB short L-wires	15	Copper-Alloy	Tin
10	Customized flange-ground	1	Copper-Alloy	Tin
11	PCB	1	-	FR4



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

- NOTES:
- This drawing represents the only valid technical specification. Data which is not explicitly mentioned on this drawing will not be supported by YED
 - Connector suitable for mass production.
 - Connector suitable for THR (Through Hole Reflow) soldering and TH (Through Hole) soldering at customer process.

KUNDENFREIGABE / CUSTOMER APPROVAL

Firma / Company :

Unterschrift / Signature : Datum / Date :

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

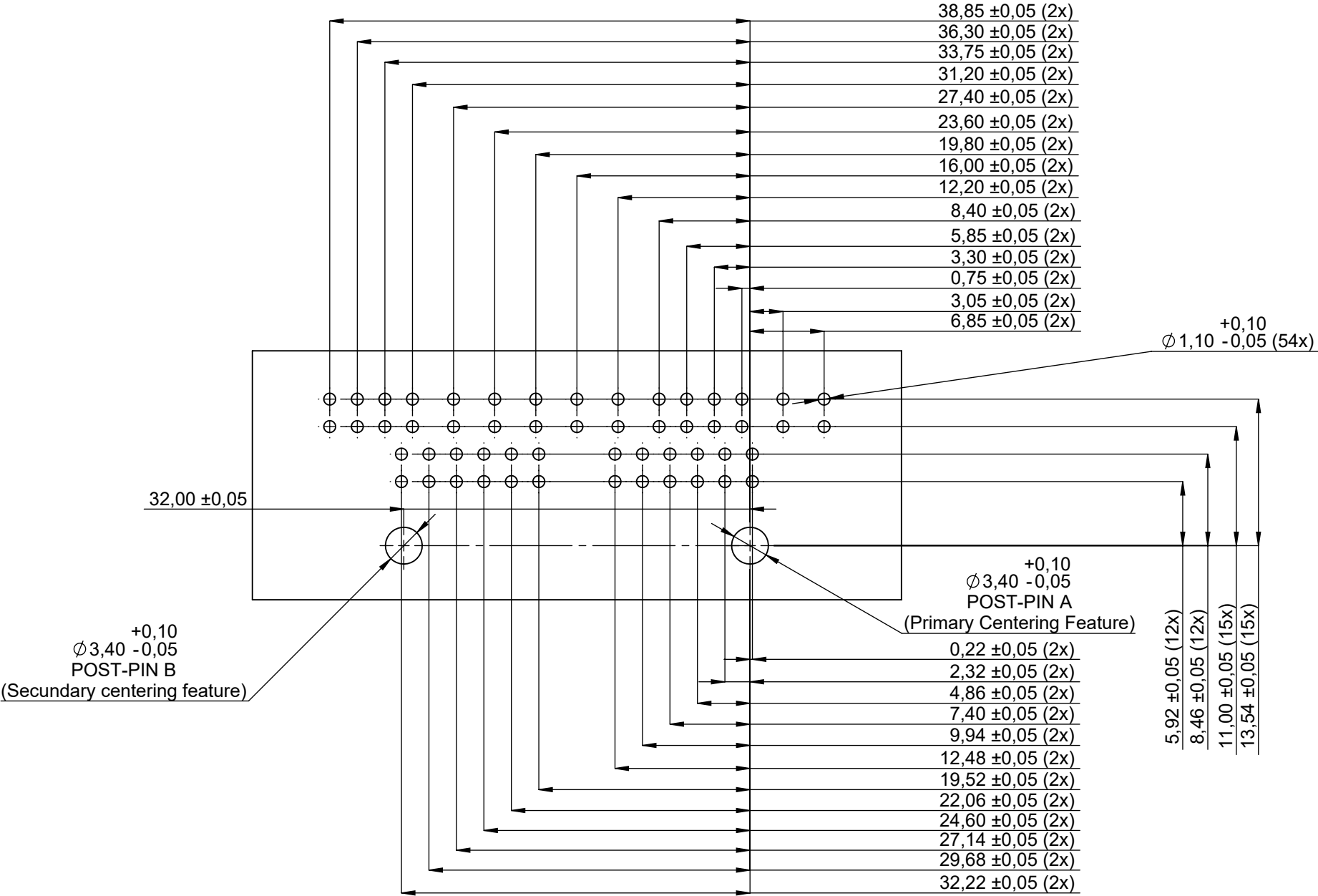
RoHS compliant acc. to directive 2011/65/EU

Unless otherwise specified : Dimensions are in millimeters TOLERANCES DIN ISO 2768-1f (fine)		REV.	REVISION DESCRIPTION		INITIALS	REV. DATE	YAMAICHI ELECTRONICS	
								
								
								
								
Order / Article No. 86-01835		DO NOT SCALE DRAWING				CLASSIFICATION:		QuadLock connector, 52pins
NOTES: A3	 FIRST		NAME	DATE	TITLE:			
		CREATED	M260	28.08.2019	Y-QLS-52P-LL-THR9-P-EDC			
		MODIFIED	T100	27.01.2020	DWG NO.: Customer-P2801A12			
		RELEASED	M190	27.01.2020				
					REVISION:		001	
WEIGHT:		SUBREV	01		SCALE: 1:1	SHEET 1 OF 6	A3 - ASSEMBLY	

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RECOMMENDED CUSTOMER-BOARD LAYOUT
(VIEW FROM TOP SIDE OF THE BOARD)



- NOTE:**
- Pin key numbering: please, see sheet 4.
 - Pin mapping: please, see sheet 4.
 - Customer is aware of being the responsible for any deviation from this recommendation.

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RoHS compliant acc. to directive 2011/65/EU

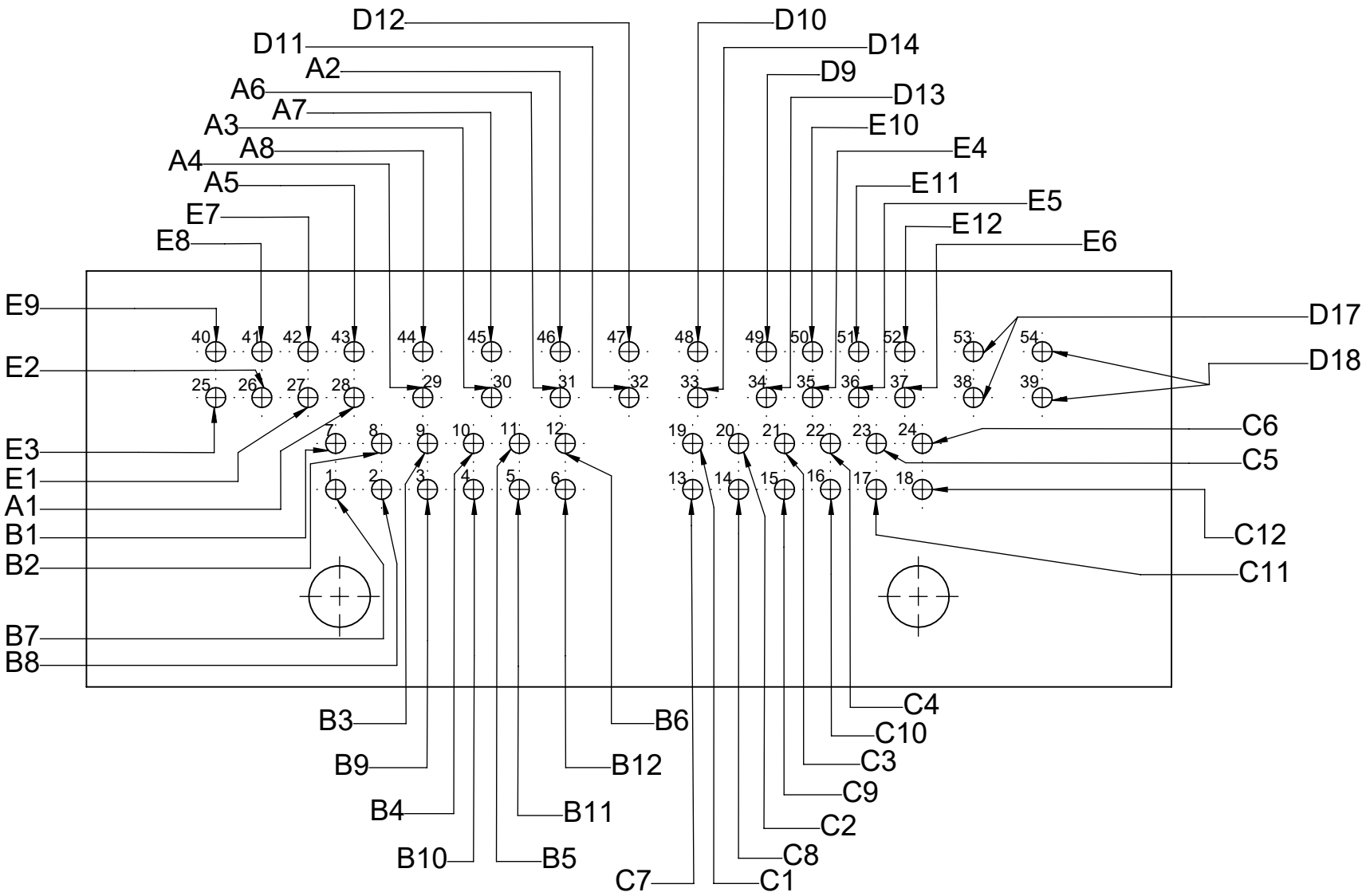
Unless otherwise specified : Dimensions are in millimeters TOLERANCES DIN ISO 2768-1f (fine)		REV.	REVISION DESCRIPTION		INITIALS	REV. DATE	YAMAICHI ELECTRONICS	
								
								
								
								
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NOTES: A3	ANGLE PROJECTION:  FIRST	CREATED	NAME	DATE	TITLE:			
		MODIFIED	M260	28.08.2019	Y-QLS-52P-LL-THR9-P-EDC			
		RELEASED	T100	27.01.2020	DWG NO.: Customer-P2801A12			
			M190	27.01.2020				
					REVISION:		001	
WEIGHT:		SUBREV	01		SCALE: 1:1	SHEET 2 OF 6	A3 - ASSEMBLY	

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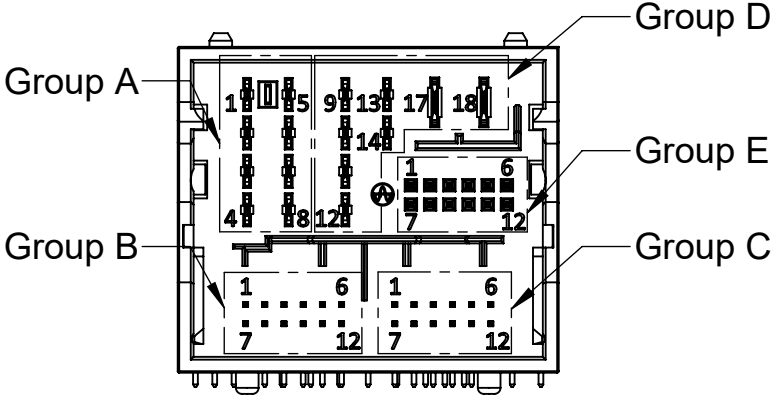
PIN MAPPING

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Frontal contact layout		Customer board contact layout
Group	contact number	contact number
A	1	28
A	2	46
A	3	30
A	4	29
A	5	43
A	6	31
A	7	45
A	8	44
B	1	7
B	2	8
B	3	9
B	4	10
B	5	11
B	6	12
B	7	1
B	8	2
B	9	3
B	10	4
B	11	5
B	12	6
C	1	19
C	2	20
C	3	21
C	4	22
C	5	23
C	6	24
C	7	13
C	8	14
C	9	15
C	10	16
C	11	17
C	12	18
D	9	49
D	10	48
D	11	32
D	12	47
D	13	34
D	14	33
D	17	38/53
D	18	39/54
E	1	27
E	2	26
E	3	25
E	4	35
E	5	36
E	6	37
E	7	42
E	8	41
E	9	40
E	10	50
E	11	51
E	12	52



FRONTAL LAYOUT



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Specification/Drawing subject to alteration without prior notice

RoHS compliant acc. to directive 2011/65/EU

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

Order / Article No. 86-01835

NOTES:

A3

ANGLE PROJECTION:

FIRST

REV.

△

△

△

△

△

△

△

△

△

△

△

△

△

REVISION DESCRIPTION

INITIALS

REV. DATE



CLASSIFICATION: QuadLock connector, 52pins

TITLE: Y-QLS-52P-LL-THR9-P-EDC

DWG NO.: Customer-P2801A12

REVISION:

001

SCALE: 1:1

SHEET 3 OF 6

A3 - ASSEMBLY

1

2

3

4

5

6

7

8

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ELECTRICAL SPECS

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GROUP	PIN	MAX CONTINUOUS CURRENT [A]
A	1	Inenn=2,00A I _{max} = 4,5A eff; U = 14,4V
	2	Inenn=2,00A I _{max} = 4,5A eff; U = 14,4V
	3	Inenn=2,00A I _{max} = 4,5A eff; U = 14,4V
	4	Inenn=2,00A I _{max} = 4,5A eff; U = 14,4V
	5	Inenn=2,00A I _{max} = 4,5A eff; U = 14,4V
	6	Inenn=2,00A I _{max} = 4,5A eff; U = 14,4V
	7	Inenn=2,00A I _{max} = 4,5A eff; U = 14,4V
	8	Inenn=2,00A I _{max} = 4,5A eff; U = 14,4V
D	9	Inenn=0,10A ; U = 14V
	10	Inenn=0,10A ; U = 14V
	11	Inenn=0,10A ; U = 14V
	12	Inenn=0,10A ; U = 14V
	13	Inenn=0,10A ; U = 14V
	14	Inenn=0,10A ; U = 14V
	17	I _{max} = 16A eff; U = 14,4V
B	18	I _{max} = 16A eff; U = 14,4V
	1	Inenn=0,10A ; U = 14V
	2	Inenn=0,10A ; U = 14V
	3	Inenn=0,10A ; U = 14V
	4	Inenn=0,10A ; U = 14V
	5	Inenn=0,10A ; U = 14V
	6	Inenn=0,10A ; U = 14V
	7	Inenn=0,10A ; U = 14V
	8	Inenn=0,10A ; U = 14V
	9	Inenn=0,10A ; U = 14V
	10	Inenn=0,10A ; U = 14V
	11	Inenn=0,10A ; U = 14V
C	12	Inenn=0,10A ; U = 14V
	1	Inenn=0,10A ; U = 14V
	2	Inenn=0,10A ; U = 14V
	3	Inenn=0,10A ; U = 14V
	4	Inenn=0,10A ; U = 14V
	5	Inenn=0,10A ; U = 14V
	6	Inenn=0,10A ; U = 14V
	7	Inenn=0,10A ; U = 14V
	8	Inenn=0,10A ; U = 14V
	9	Inenn=0,10A ; U = 14V
	10	Inenn=0,10A ; U = 14V
	11	Inenn=0,10A ; U = 14V
E	12	Inenn=0,10A ; U = 14V
	1	Inenn=0,10A ; U = 14V
	2	Inenn=0,10A ; U = 14V
	3	Inenn=0,10A ; U = 14V
	4	Inenn=0,10A ; U = 14V
	5	Inenn=0,10A ; U = 14V
	6	Inenn=0,10A ; U = 14V
	7	Inenn=0,10A ; U = 14V
	8	Inenn=0,10A ; U = 14V
	9	Inenn=0,10A ; U = 14V
	10	Inenn=0,10A ; U = 14V
	11	Inenn=0,10A ; U = 14V
12	Inenn=0,10A ; U = 14V	

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FRONTAL LAYOUT

Group A

Group B

Group D

Group E

Group C

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

REV.

REVISION DESCRIPTION

INITIALS

REV. DATE

Order / Article No. 86-01835

DO NOT SCALE DRAWING

CLASSIFICATION: QuadLock connector, 52pins

NOTES:
A3

ANGLE PROJECTION:
FIRST

NAME

DATE

CREATED

MODIFIED

RELEASED

M260

T100

M190

28.08.2019

27.01.2020

27.01.2020

TITLE:

DWG NO.:

REVISION:

Customer-P2801A12

001

WEIGHT:

SUBREV

01

SCALE: 1:1

SHEET 4 OF 6

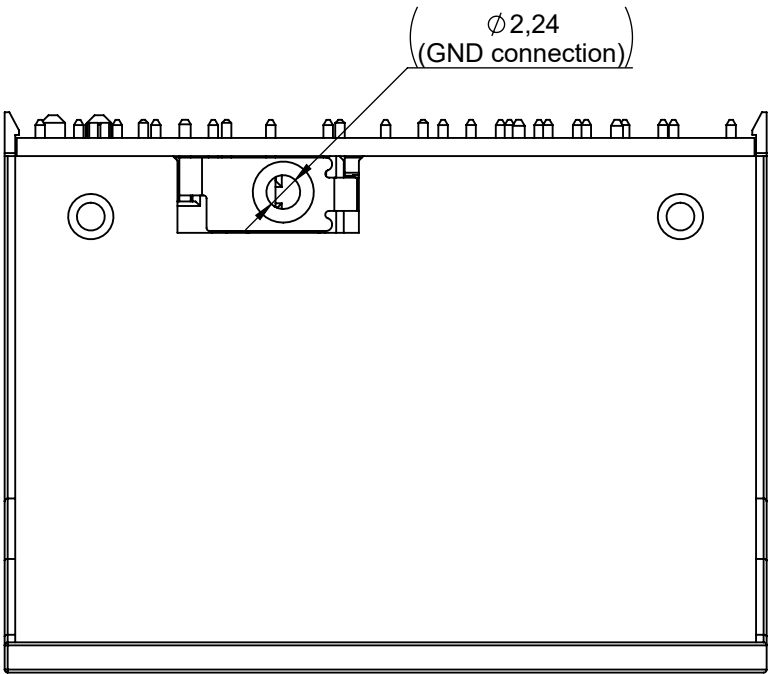
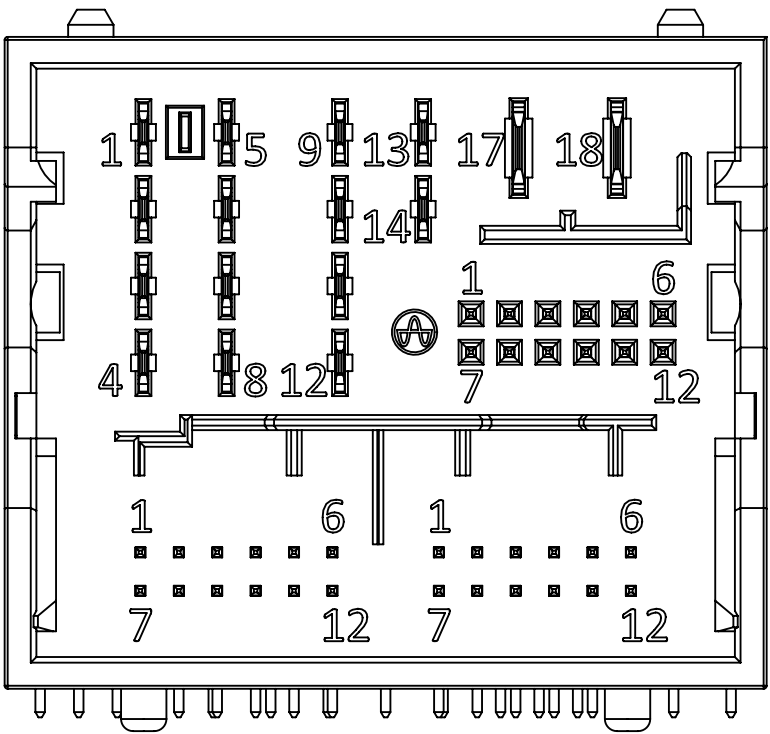
A3 - ASSEMBLY

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GND SCREW CONNECTION

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- NOTE:
- 1. GND connection flange suitable for self-tapping screw size M2.5
 - 2. Max. allowable screw-in depth is 6 mm.
 - 3. Choosing the specific screw type and defining the individual screwing parameters is under customer responsibility.
 - 4. Customer is aware of being the only responsible for the screwing process.



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Order / Article No. 86-01835		DO NOT SCALE DRAWING				CLASSIFICATION: QuadLock connector, 52pins		
NOTES: A3		ANGLE PROJECTION:	CREATED	M260	28.08.2019	TITLE: Y-QLS-52P-LL-THR9-P-EDC		
			MODIFIED	T100	27.01.2020	DWG NO.: Customer-P2801A12		
			RELEASED	M190	27.01.2020			
								REVISION: 001
WEIGHT:		SUBREV	01			SCALE: 1:1	SHEET 5 OF 6	A3 - ASSEMBLY

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GENERAL SPECIFICATION Functional temperature: -40°C to +85°C Soldering process: suitable for Through Hole (TH) suitable for Through Hole Reflow (THR) The recommended orientation of the YQUAD during reflow defined as backwards or forwards, where the direction of the movement if always normal to the backside PCB plane.																																																																																																					
INSULATOR MATERIAL Plastic material suitable for wave and reflow soldering Flammability class UL94-V0																																																																																																					
ELECTRICAL REQUIREMENTS See drawing sheet 4 for details																																																																																																					
PACKAGING Default Tubes (non-ESD) packaging																																																																																																					
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