

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 507)

PHYSICAL CHARACTERISTICS

- INSULATOR MATERIAL: THERMOPLASTIC UL94V0
- CONTACT MATERIAL: BRASS(SIGNAL CONTACT)
- BRASS (POWERS CONTACT)
- ACCESSORIES: BRASS
- SHELLS: STEEL

ELECTRICAL CHARACTERISTICS

- NOMINAL CURRENT: 7.5A (SIGNAL CONTACT)
- 30A (POWER CONTACT)
- CONTACT RESISTANCE: <=7.3 m Ohms(SIGNAL and POWER)
- CONTACT/CONTACT : >=1000 V
- CONTACT/GROUND : >=1200 V
- INSULATION RESISTANCE: >=5000 MOhms

ENVIRONMENTAL CHARACTERISTICS

- CLIMATIC CATEGORY: 55/125/21
- TEMPERATURE RANGE -55°C TO +125°C
- DAMP HEAT STEADY STATE 21 DAYS
- SALT SPRAY 24 HOURS

MECHANICAL CHARACTERISTICS

- RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m maximum
- Female screw : 0.5 N.m maximum

NOTE RoHS INFORMATION

- The "LF" products meet european union Directives and other country regulations as described in GS-47-0004.
- The housing will withstand exposure to 260°C peak temperature for 3.5 seconds in a wave solder application with a 1.6mm minimum thick circuit board. See application notes/procedures if they are available.
- Termination plating spec:
 - Signal contacts: Ni + Gold/GxT
 - Power contacts: Ni 1.27µmi+Sn 2.5 to 7.5µ,pure bright
- Active area plating spec:
 - Signal and power contacts: Ni + Gold/GxT
- Shell plating :2 to 4µm Cu + Ni + 3 to 10µmm Sn,pure bright
- Accessories: Sn pure bright + Nickel
- Packaging spec: See GS-14-920

Series

DBL13W3P700G30LF

Shell size: **A B C**
see sheet 3

Front accessory definition
see sheet 2

- blank** :without accessory
- L** :threaded insert M3
- O** :threaded insert UNC 4-40
- V** :female screw UNC 4-40

Layout of contacts (see sheets)

Contacts

P :Pin

Termination type

7 Right angle/USA

Plating

- 00** 200 matings/unmatings
- 43** 500 matings/unmatings

PCB accessories definition
see sheet 2

- A** :without accessory
- H** :Metal brackets+harpoons for PCB 2.40mm
- G** :Metal brackets+harpoons for PCB 1.60mm
- M** :Metal brackets

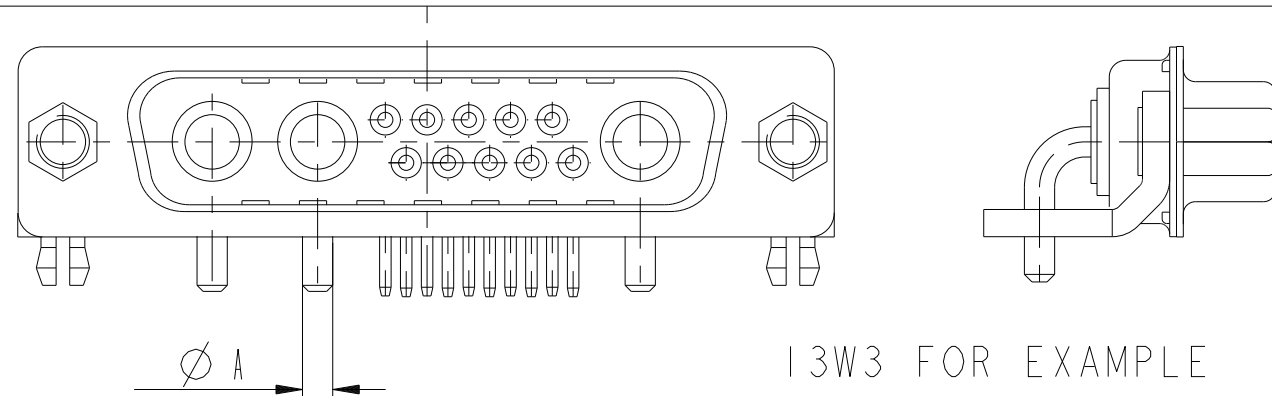
Power contacts

30 :Fitted with power contacts 30 Amp.

See note RoHS

TABLE 1:PCB HOLE DIAMETERS

POWER CONTACTS			ACCESSORIES	SIGNAL CONTACTS
30 A	2.00	Ø2.40	Ø3.10	Ø0.90 min
Max current power	ØA±0.1	PCB HOLE +/-0.1	PCB HOLE +/-0.1	PCB HOLE +/-0.1



spec ref				dr	1, Product Eng		2015/06/13		projection	mm	size	A2	scale	1:1	
tolerance std				eng	Gregar Mathew		2019/11/09				ecn no	ELX-1-33023-1			
ISO 406 ISO 1101				chr	-		-					rel level	Released		
TOLERANCES UNLESS OTHERWISE SPECIFIED				appr	Varma Sudhir		2019/11/12		product family		-				
surface	✓	linear	0.X	±0.3	Amphenol FCI	title	SUB MALE DW US FOOT PRINT				dwg no	C01-8639-2305c		rev	E
			0.XX	±0.1											
			0.XXX	0.05			MIXED POWER RIGHT ANGLE SOLDER								
			angular	0°								±22°			
ISO 1302						cat. no.	-	Product - Customer Drw				sheet 1 of 6			

A

B

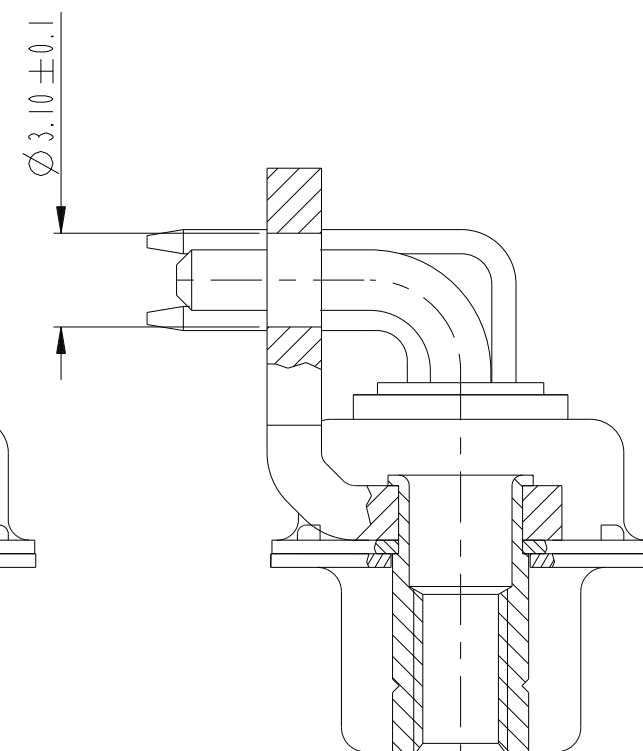
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D

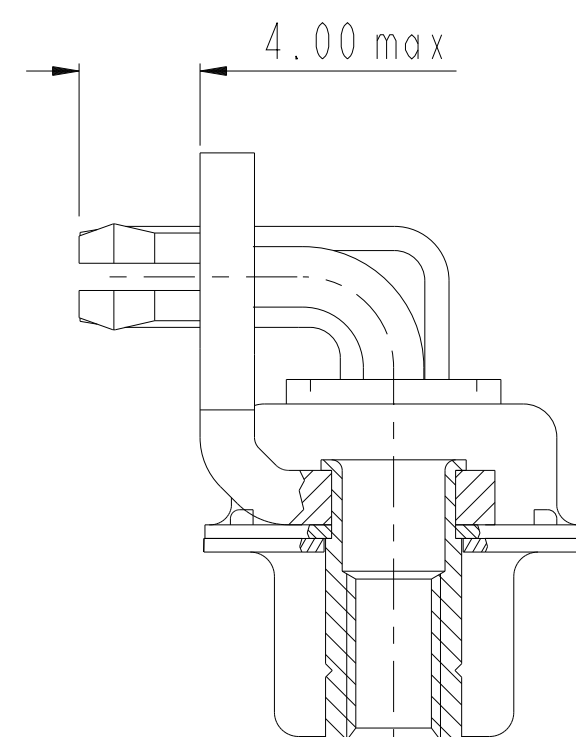
E

F

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FRONT ACCESSORY	Blank Without	L insert M3 O insert UNC 4.40	V insert UNC 4.40	Blank Without	L insert M3 O insert UNC 4.40	V insert UNC 4.40
PCB ACCESSORIES	G Metal brackets + harpoons for PCB 1.60mm	G Metal brackets + harpoons for PCB 1.60mm	G Metal brackets + harpoons for PCB 1.60mm	H Metal brackets + harpoons for PCB 2.40mm	H Metal brackets + harpoons for PCB 2.40mm	H Metal brackets + harpoons for PCB 2.40mm



spec ref				dr		1, Product Eng	2015/06/13	projection	mm	size	A2	scale	2:1			
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Gregar Mathew	2019/11/09					ecn no			ELX-I-33023-1	
ISO 406				chr		-	-					rel level			Released	
ISO 1101				appr		Varma Sudhir	2019/11/12					product family		-		
surface		-	linear	0.X	±0.30	Amphenol FCI	title	SUB MALE DW US FOOT PRINT				dwg no	C01-8639-2305c		rev	E
			0.XX	±0.10												
			0.XXX	±0.05												
ISO 1302		✓	angular	0°	±2°		cat. no.	-	Product - Customer Drw				sheet 2 of 6			

5	PDS: Rev :E	STATUS:Released	Printed: Nov 12, 2019
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PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP700A30LF	30	200	without	without
D*LxWxP700A30LF	30	200	insert M3	without
D*OxWxP700A30LF	30	200	insert UNC 4.40	without
D*VxWxP700A30LF	30	200	female screw UNC 4.40	without
D*xWxP700H30LF	30	200	without	metal bracket+harpoon PCB 2.40mm
D*LxWxP700H30LF	30	200	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxP700H30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxP700H30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxP700G30LF	30	200	without	metal bracket+harpoon PCB 1.60mm
D*LxWxP700G30LF	30	200	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxP700G30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxP700G30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxP700M30LF	30	200	without	metal bracket
D*LxWxP700M30LF	30	200	insert M3	metal bracket
D*OxWxP700M30LF	30	200	insert UNC 4.40	metal bracket
D*VxWxP700M30LF	30	200	female screw UNC 4.40	metal bracket

shell size * LAYOUTS
xWx

A

A

B

B

B

C

C

C

11W1

7W2

21W1

17W2

13W3

25W3

21WA4

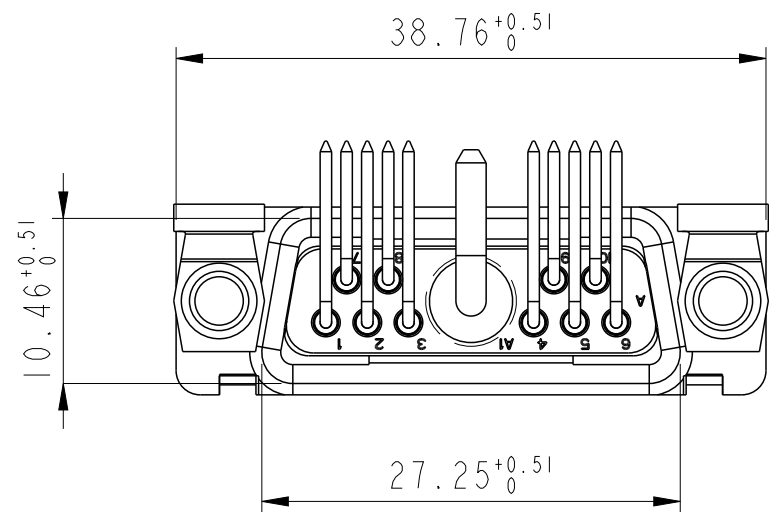
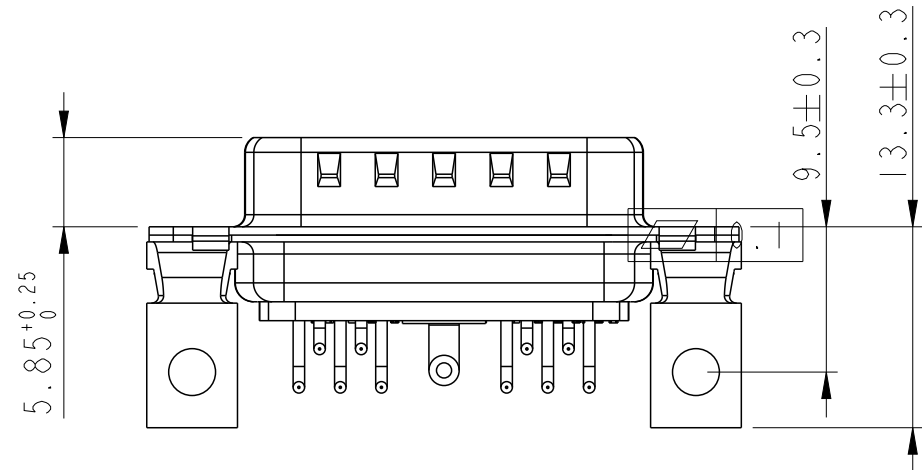
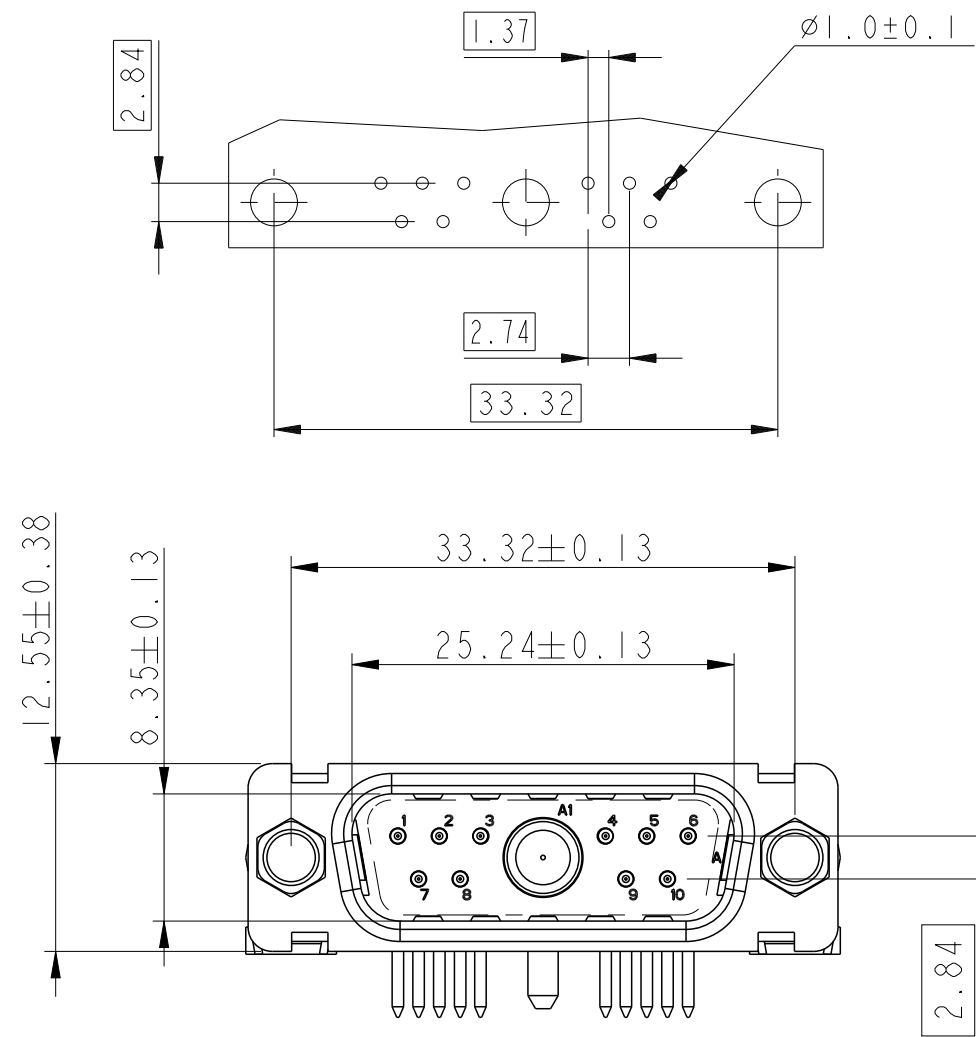
27W2

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP743A30LF	30	500	without	without
D*LxWxP743A30LF	30	500	insert M3	without
D*OxWxP743A30LF	30	500	insert UNC 4.40	without
D*VxWxP743A30LF	30	500	female screw UNC 4.40	without
D*xWxP743H30LF	30	500	without	metal bracket+harpoon PCB 2.40mm
D*LxWxP743H30LF	30	500	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxP743H30LF	30	500	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxP743H30LF	30	500	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxP743G30LF	30	500	without	metal bracket+harpoon PCB 1.60mm
D*LxWxP743G30LF	30	500	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxP743G30LF	30	500	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxP543G30LF	30	500	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxP743M30LF	30	500	without	metal bracket
D*LxWxP743M30LF	30	500	insert M3	metal bracket
D*OxWxP743M30LF	30	500	insert UNC 4.40	metal bracket
D*VxWxP743M30LF	30	500	female screw UNC 4.40	metal bracket

spec ref		dr		1, Product Eng		2015/06/13		projection		mm		size		A2		scale		2:1			
tolerance std		eng		Gregar Mathew		2019/11/09						ecn no		ELX-133023-1							
ISO 406		chr		-		-															
ISO 1101		appr		Varma Sudhir		2019/11/12						product family		-		rel level		Released			
surface		linear		0.X		±0.30				title		SUB MALE DW US FOOT PRINT		dwg no		C01-8639-2305c		rev		E	
		0.XX		±0.10																	
		0.XXX		±0.05																	
ISO 1302		angular		0°		±2°		cat. no.		-		Product - Customer Drw				sheet 3 of 6					

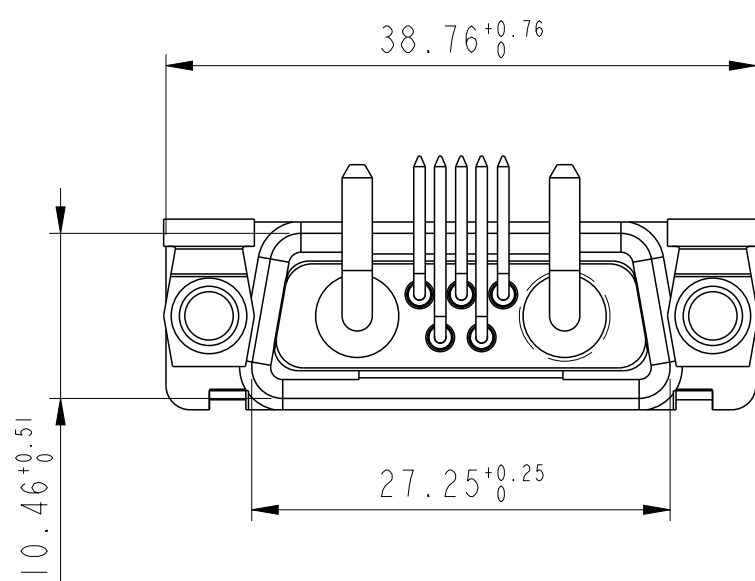
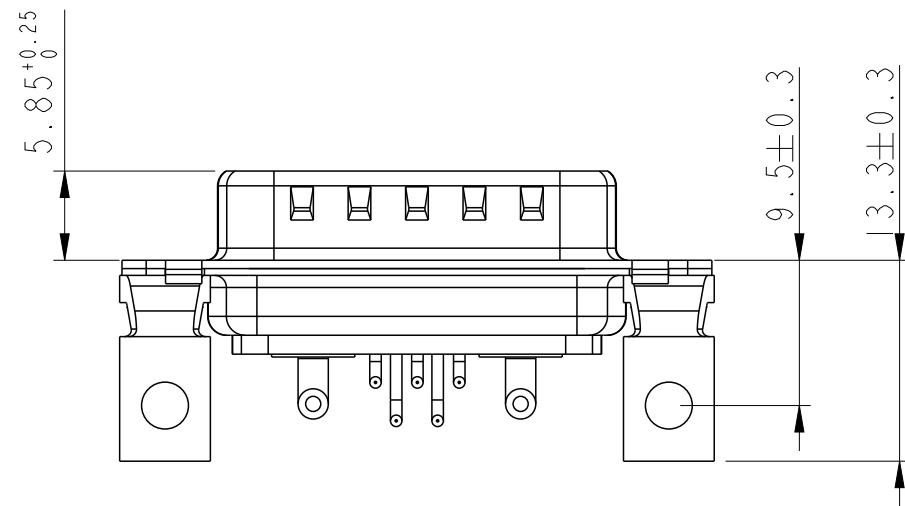
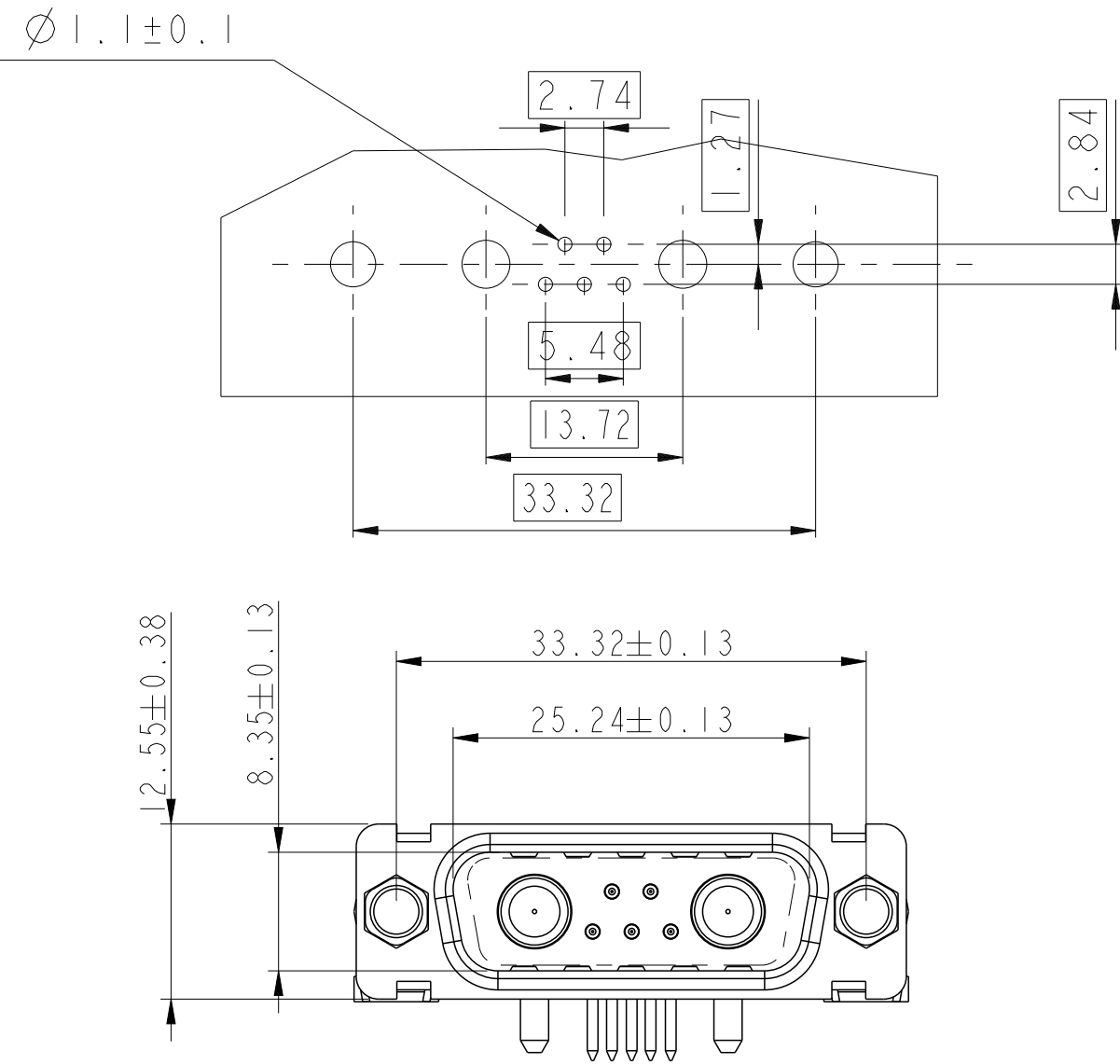
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I



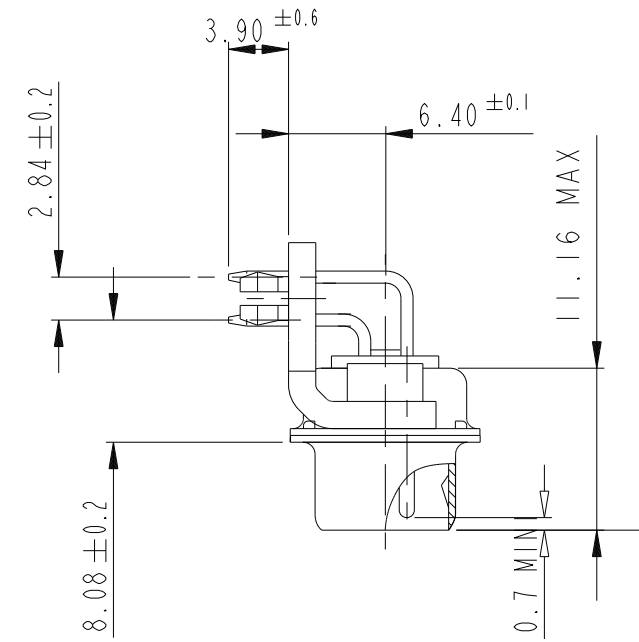
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I

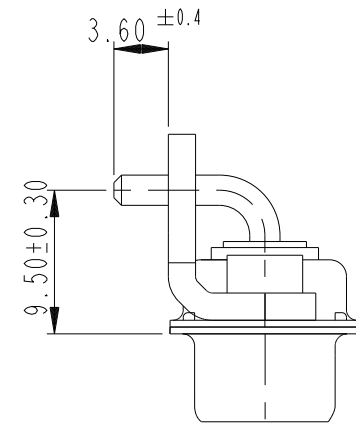


SIDE VIEW FOR ALL LAYOUTS

VIEW WITHOUT POWERS
CONTACTS



VIEW WITH POWERS
CONTACTS



spec ref	dr	1, Product Eng	2015/06/13	projection	mm	size	A2	scale	2:1
tolerance std	eng	Gregar Mathew	2019/11/09	chr	-	ecn no	ELX-133023-1	rel level	Released
ISO 406	appr	Varma Sudhir	2019/11/12	product family	-	cat. no.	-	Product - Customer Drw	sheet 4 of 6
ISO 1101									
surface	linear	0.X	±0.30	Amphenol FCi	title	SUB MALE DW US FOOT PRINT	dwg no	C01-8639-2305c	rev
ISO 1302	angular	0°	±2°			MIXED POWER RIGHT ANGLE SOLDER			E

13W3

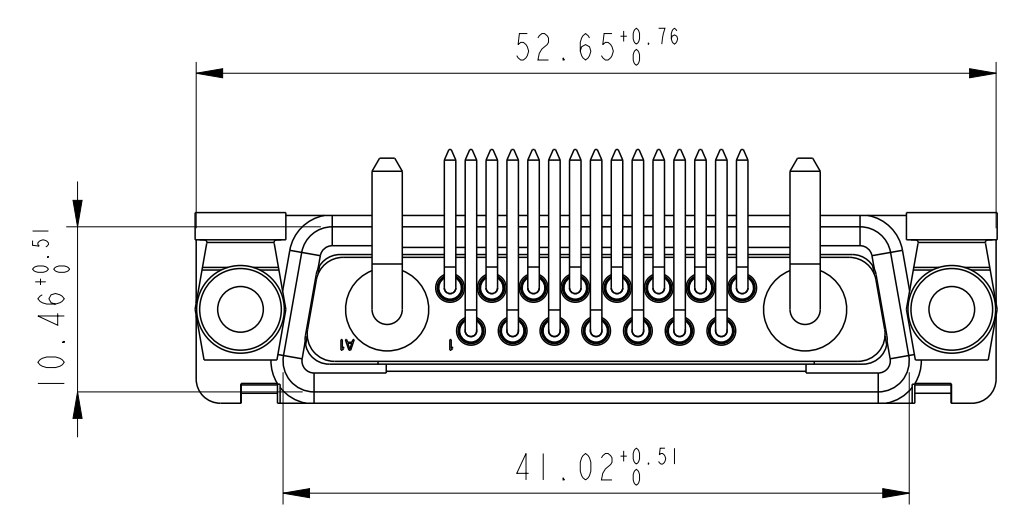
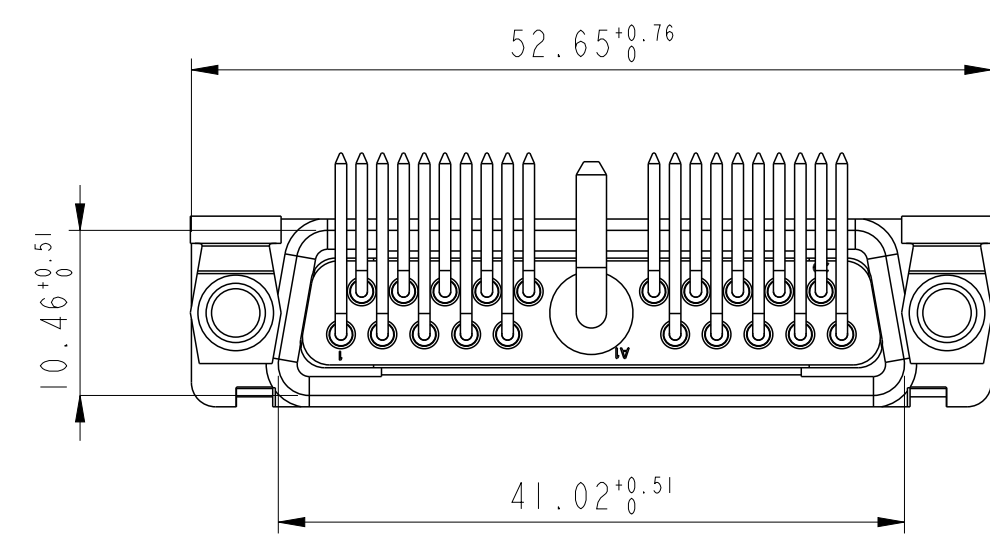
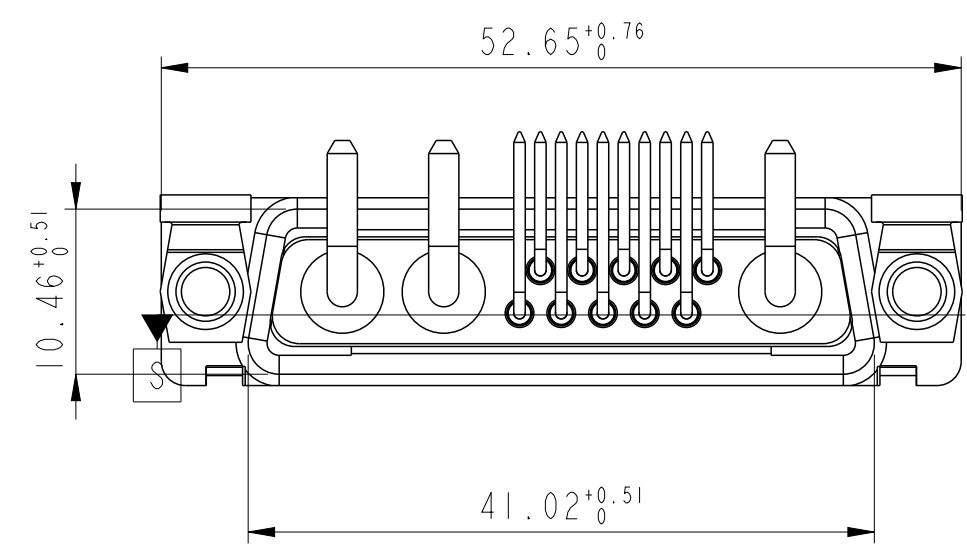
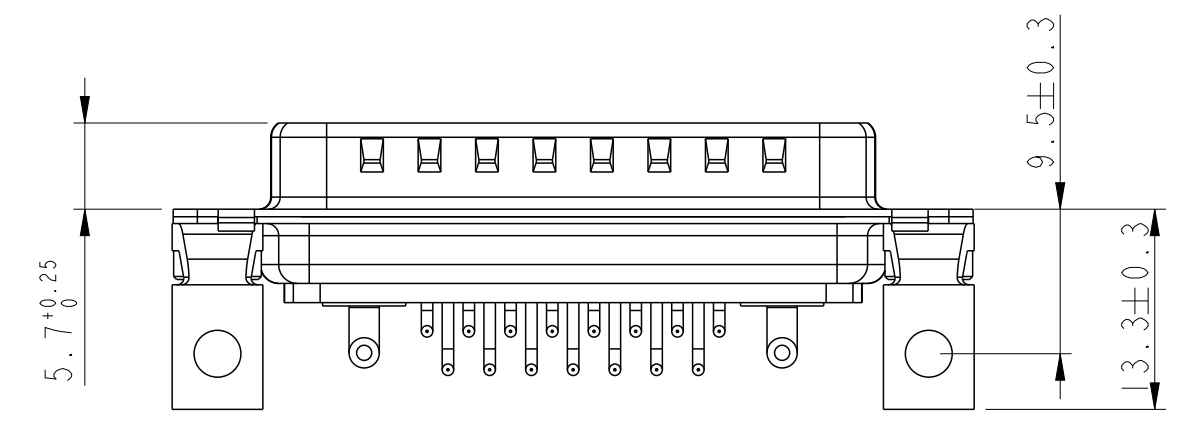
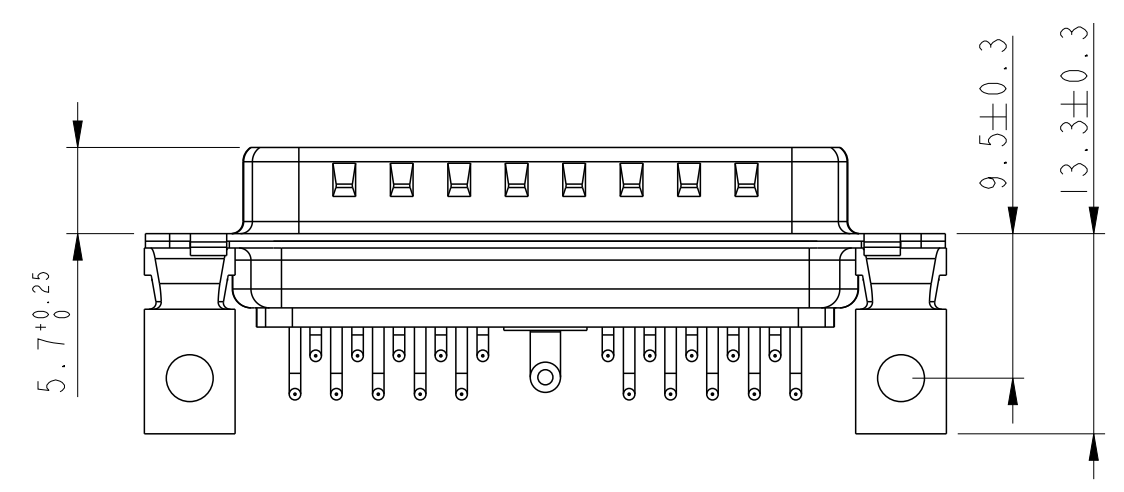
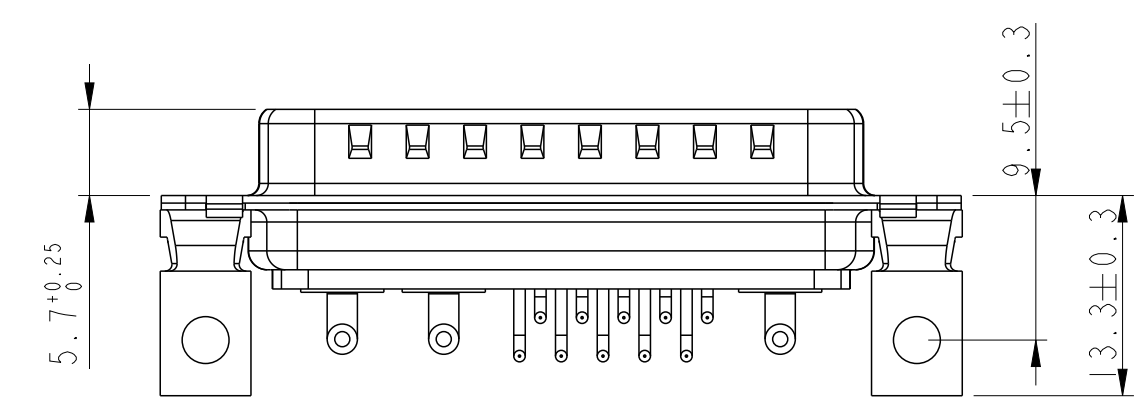
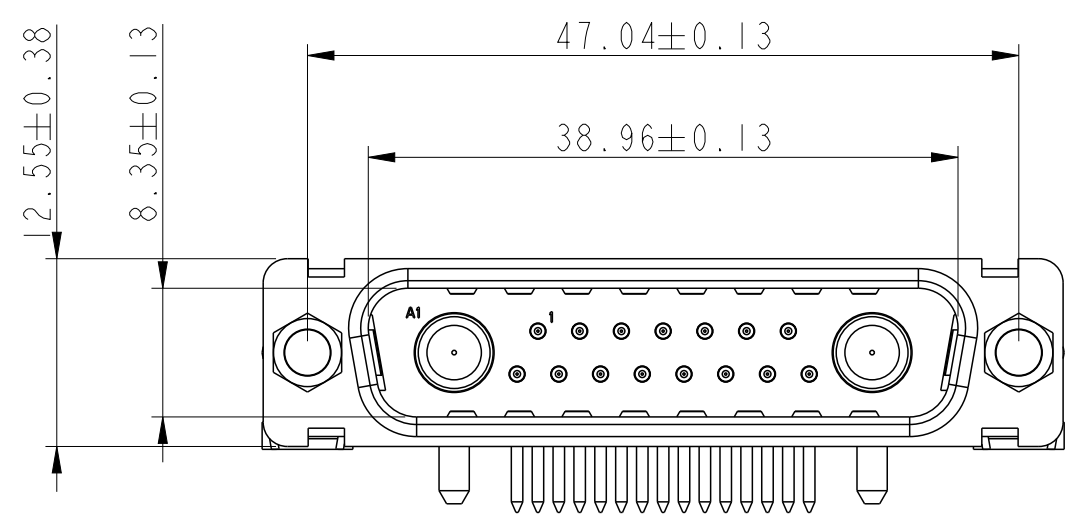
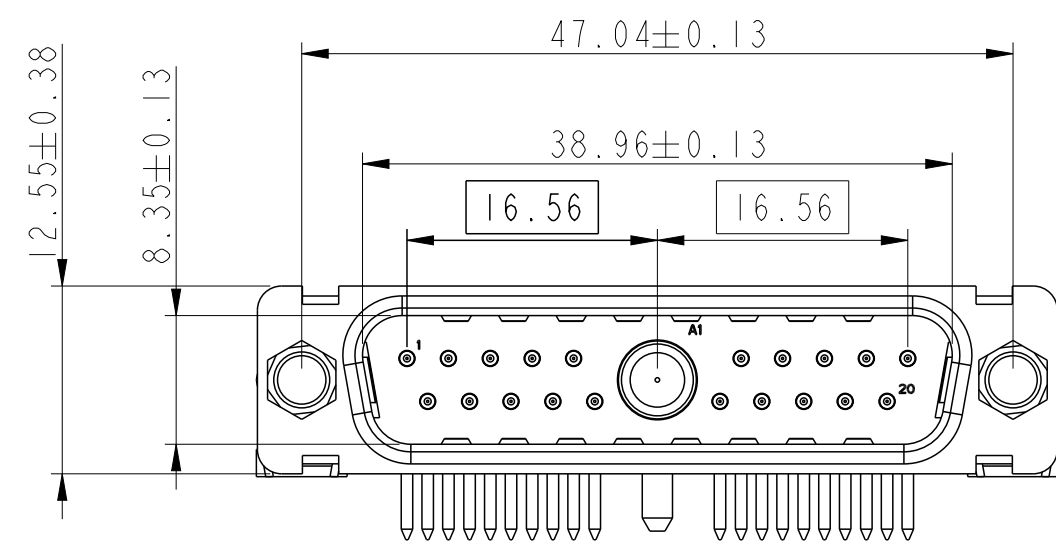
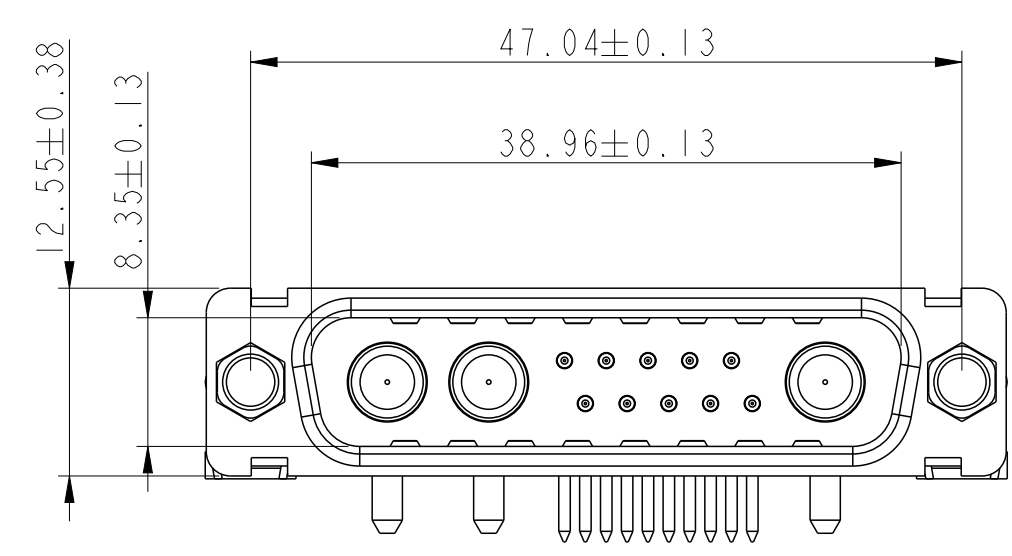
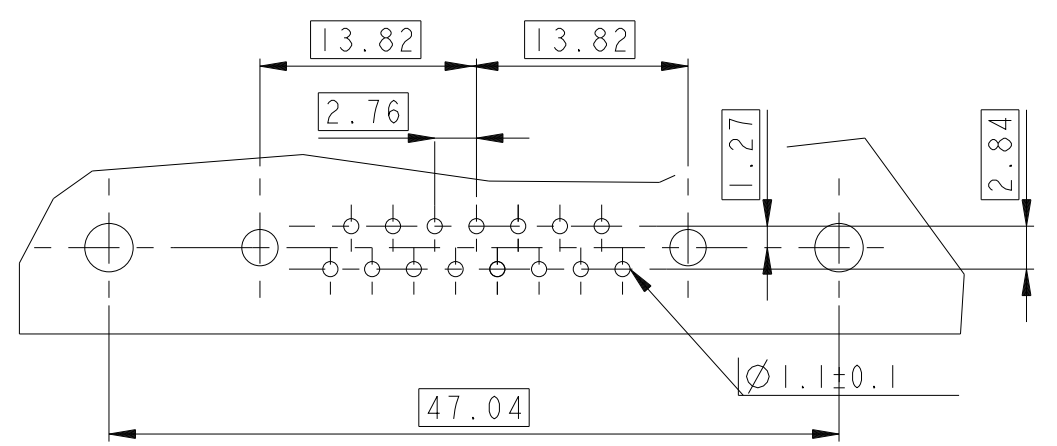
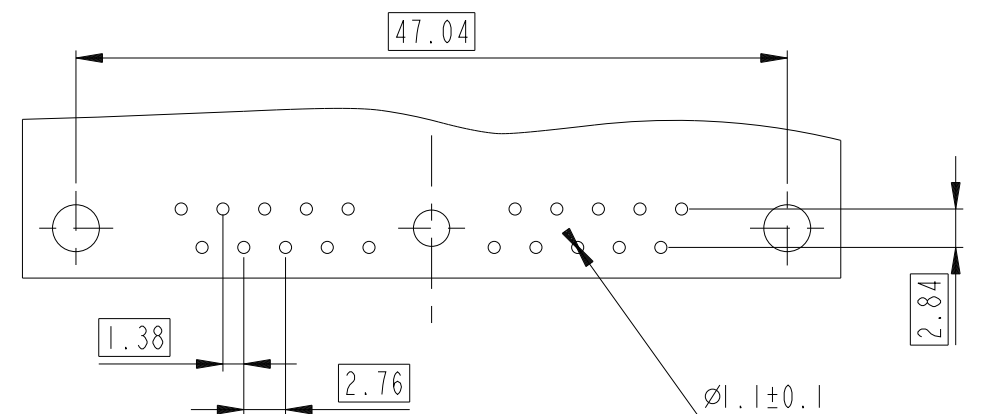
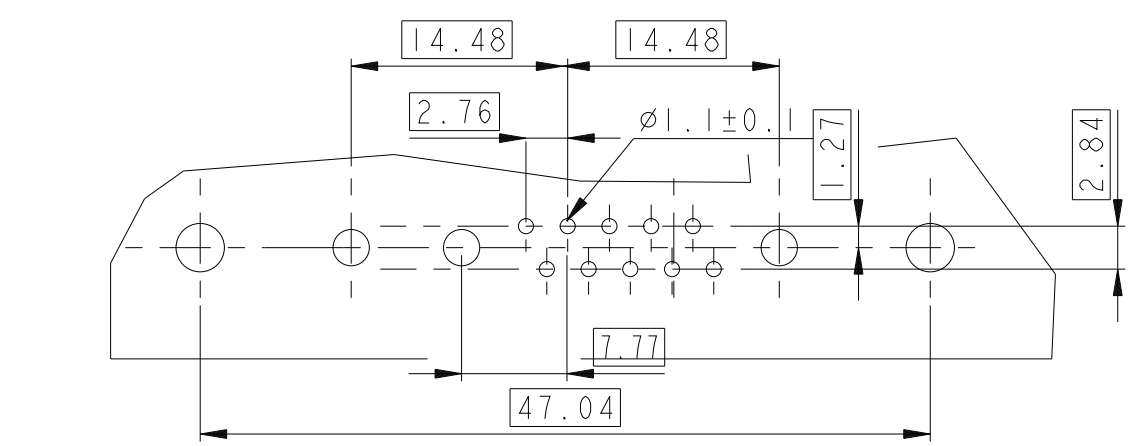
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I

21W1

LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I

17W2

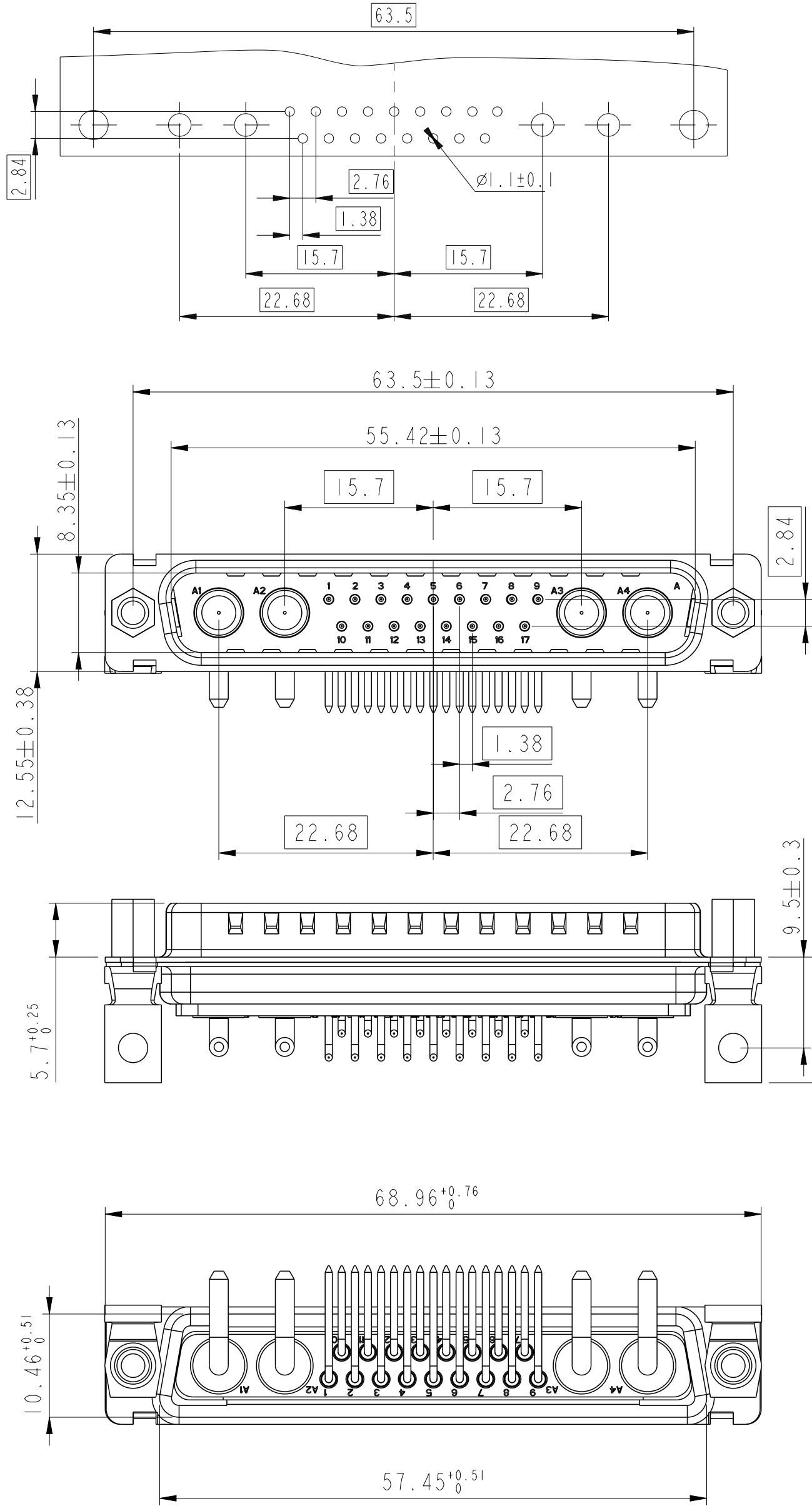
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



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tolerance std				eng		Gregar Mathew		2019/11/09						ecn no		ELX-4-33023-1									
ISO 406		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		-		-						rel level		Released									
ISO 1101				appr		Varma Sudhir		2019/11/12		product family												-			
surface		linear		Amphenol FCI		title		SUB MALE DW US FOOT PRINT		dwg no		C01-8639-2305c		rev		E									
																						0.X		±0.30	
																						0.XX		±0.10	
ISO 1302		angular						0°		±2°															
								cat. no.		-		Product - Customer Drw								sheet 5 of 6					

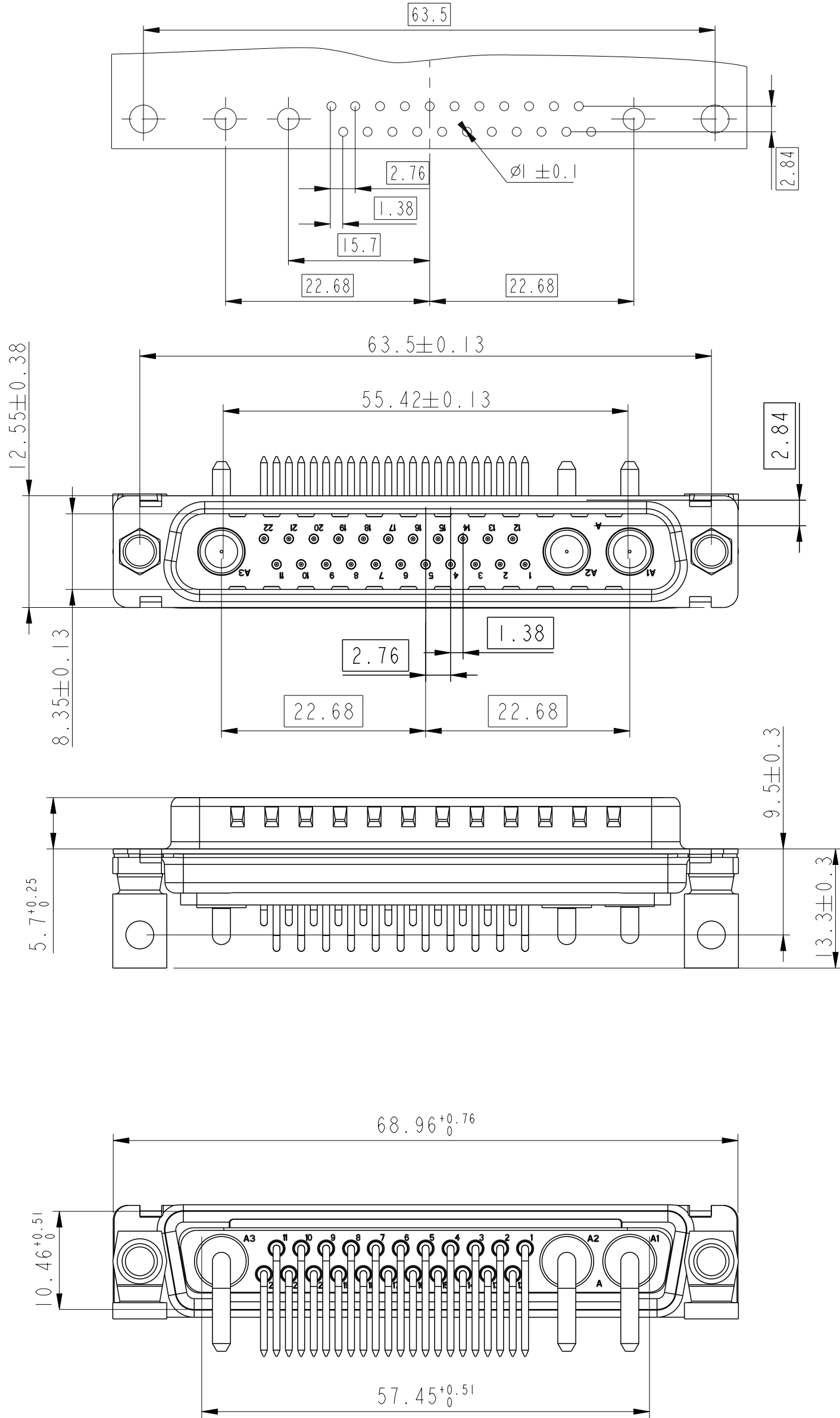
21WA4

LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



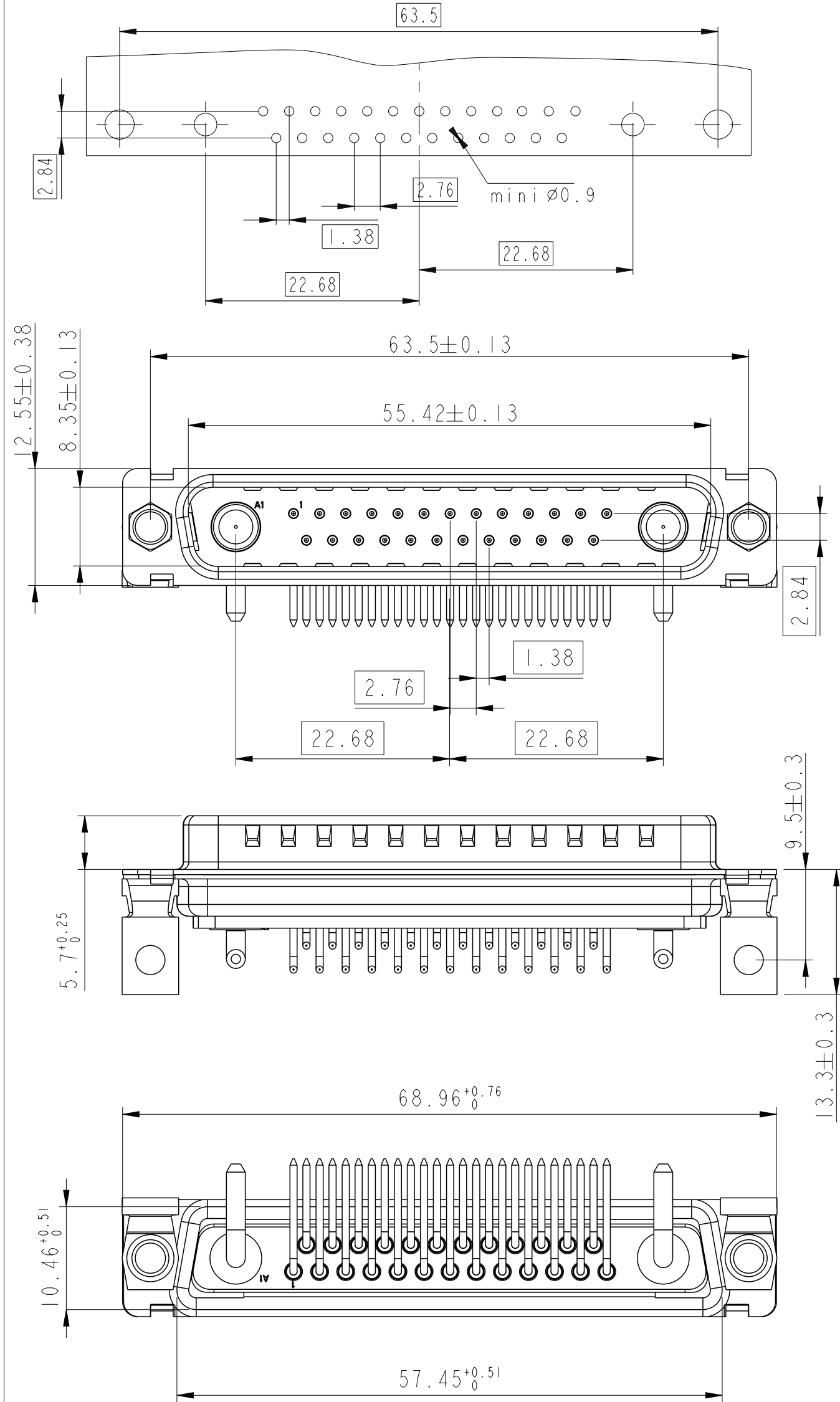
25W3

LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



27W2

LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



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ISO 1302				0.XX		±0.10															
				0.XXX		±0.05															
		angular		0°		±2°		cat. no.		-		Product - Customer Drw		sheet 6 of 6							