

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 507)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOPLASTIC UL94V0

-CONTACT MATERIAL: PHOSPHOR BRONZE(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

- CLIMATIC CATEGORY: 55/125/21

TEMPERATURE RANGE -55°C TO +125°C

DAMP HEAT STEADY STATE 21 DAYS

SALT SPRAY 24 HOURS

- 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

DBL13W3S700G30LF

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

S :Socket

Termination type

7 Right angle/USA

Plating

00 200 matings/unmatings
43 500 matings/unmatings

PCB accessories definition
see sheet 2

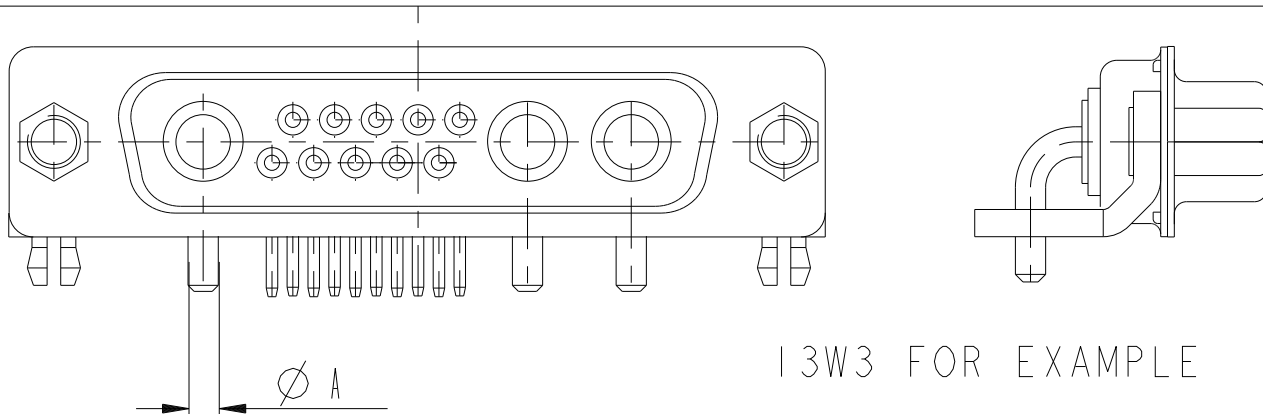
A :without accessory
H :Metal brackets+harpoons for PCB 2.40mm
G :Metal brackets+harpoons for PCB 1.60mm
M :Metal brackets

Power contacts

00 :Not fitted with power contact (signal contacts always fitted)
30 :Fitted with power contacts 30 Amp.

TABLE 1:PCB HOLE DIAMETERS

POWER CONTACTS			ACCESSORIES	SIGNAL CONTACTS
30 A	2.00	Ø2.40	ø3.10	ø1.00
Max current power	ØA±0.10	PCB HOLE +/-0.1	PCB HOLE +/-0.1	PCB HOLE +/-0.1



spec ref				dr 1, Product Eng		2015/06/12		projection		mm		size A2		scale 1:1					
tolerance std				eng Paul Mithun		2019/02/20						ecn no		ELX-1-32325-2					
ISO 406				chr -		-						rel level		Released					
ISO 1101				appr K-Paul Biju		2019/02/20						product family		-					
TOLERANCES UNLESS OTHERWISE SPECIFIED				Amphenol FCI		title SUB FEMALE DW US foot print		dwg no C01-8639-2301C		rev E		mixed power right angled solder							
												cat. no. -		Product - Customer Drw		sheet 1 of 6			
												linear		0.X ±3		0.XX ±0.10		0.XXX ±0.05	
												angular		0° ±2°					
surface																			
ISO 1302																			

A

B

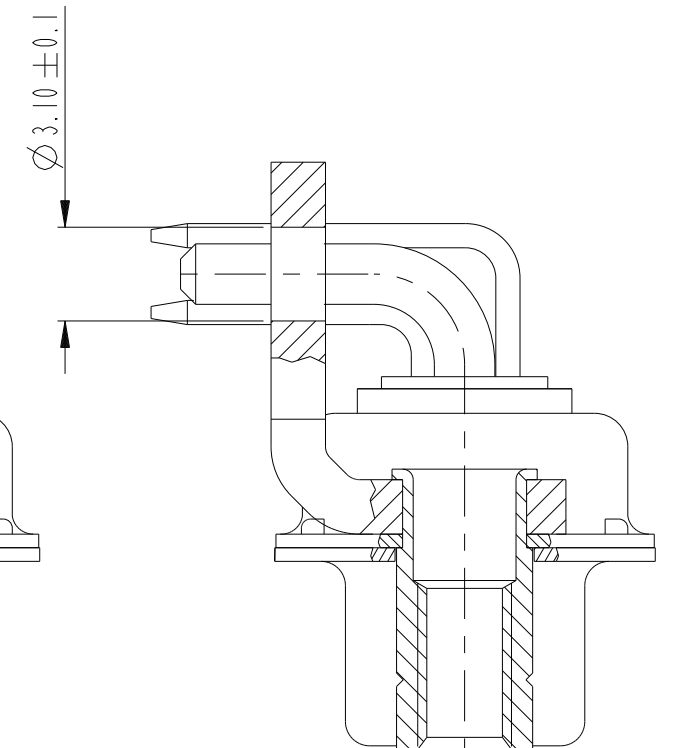
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D

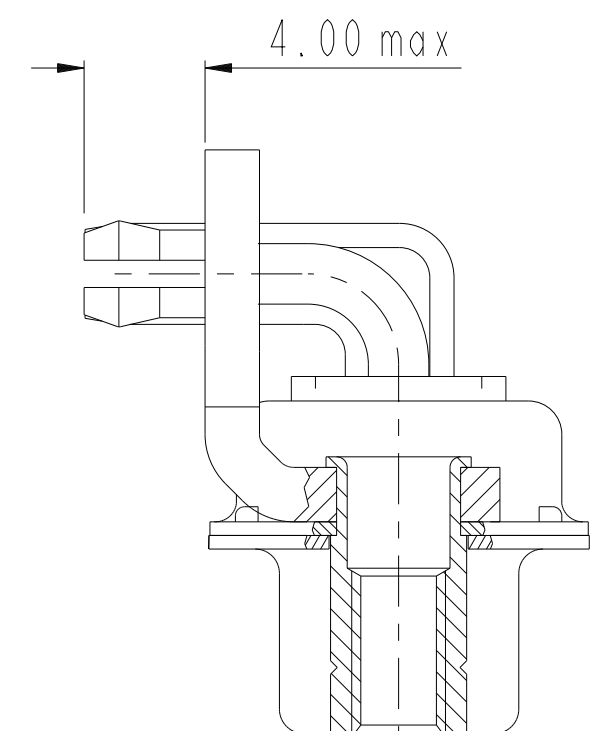
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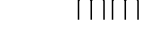
F

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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	2015/06/12	projection  mm 	size	A2	scale	1:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Paul Mithun	2019/02/20		ecn no ELX-I-32325-2			
ISO 406				chr	-	-					
ISO 1101				appr	K-Paul Biju	2019/02/20			product family - rel level Released		
surface	-	linear	0.X ±3 0.XX ±0.10 0.XXX ±±0.05	Amphenol FCi	title			SUB FEMALE DW US foot print	dwg no C01-8639-2301C	rev	E
ISO 1302	angular	0° ±2°	cat. no.			-	Product - Customer Drw	sheet 2 of 6			

5	PDS: Rev :E	STATUS:Released	Printed: Feb 20, 2019
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PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS700A30LF	30	200	without	without
D*LxWxS700A30LF	30	200	insert M3	without
D*OxWxS700A30LF	30	200	insert UNC 4.40	without
D*VxWxS700A30LF	30	200	female screw UNC 4.40	without
D*xWxS700H30LF	30	200	without	metal bracket+harpoon PCB 2.40mm
D*LxWxS700H30LF	30	200	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxS700H30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxS700H30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxS700G30LF	30	200	without	metal bracket+harpoon PCB 1.60mm
D*LxWxS700G30LF	30	200	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxS700G30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxS700G30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxS700M30LF	30	200	without	metal bracket
D*LxWxS700M30LF	30	200	insert M3	metal bracket
D*OxWxS700M30LF	30	200	insert UNC 4.40	metal bracket
D*VxWxS700M30LF	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

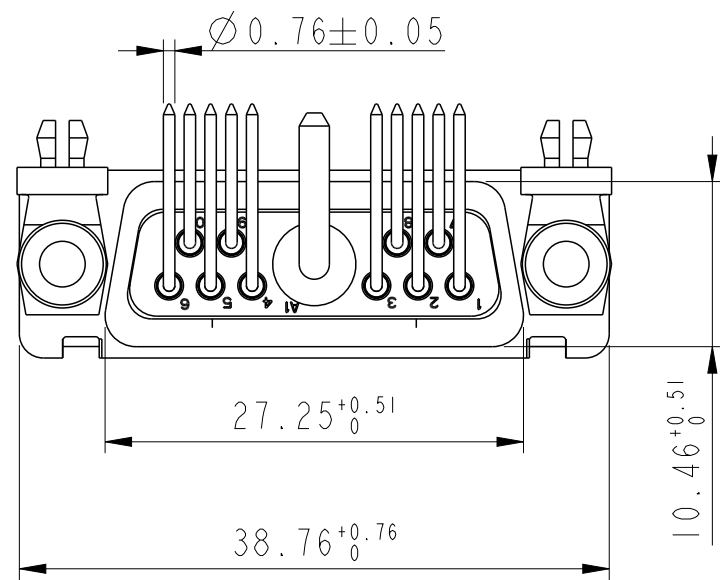
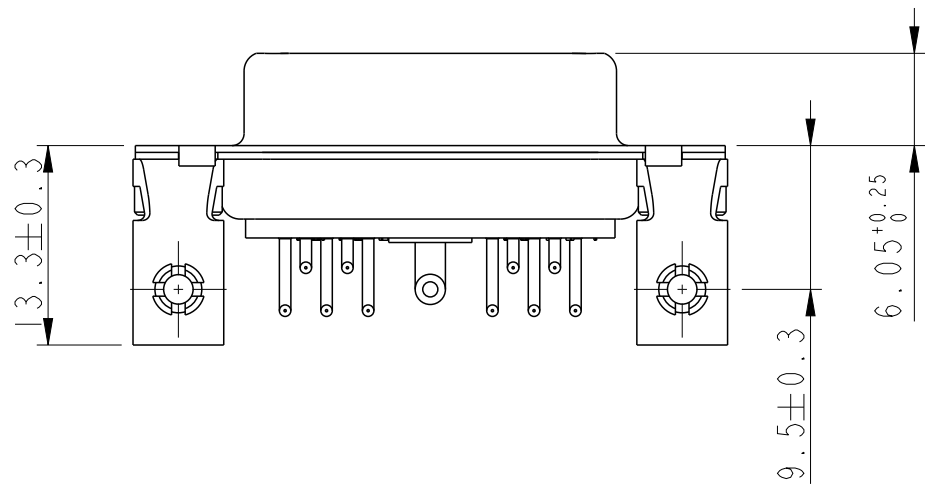
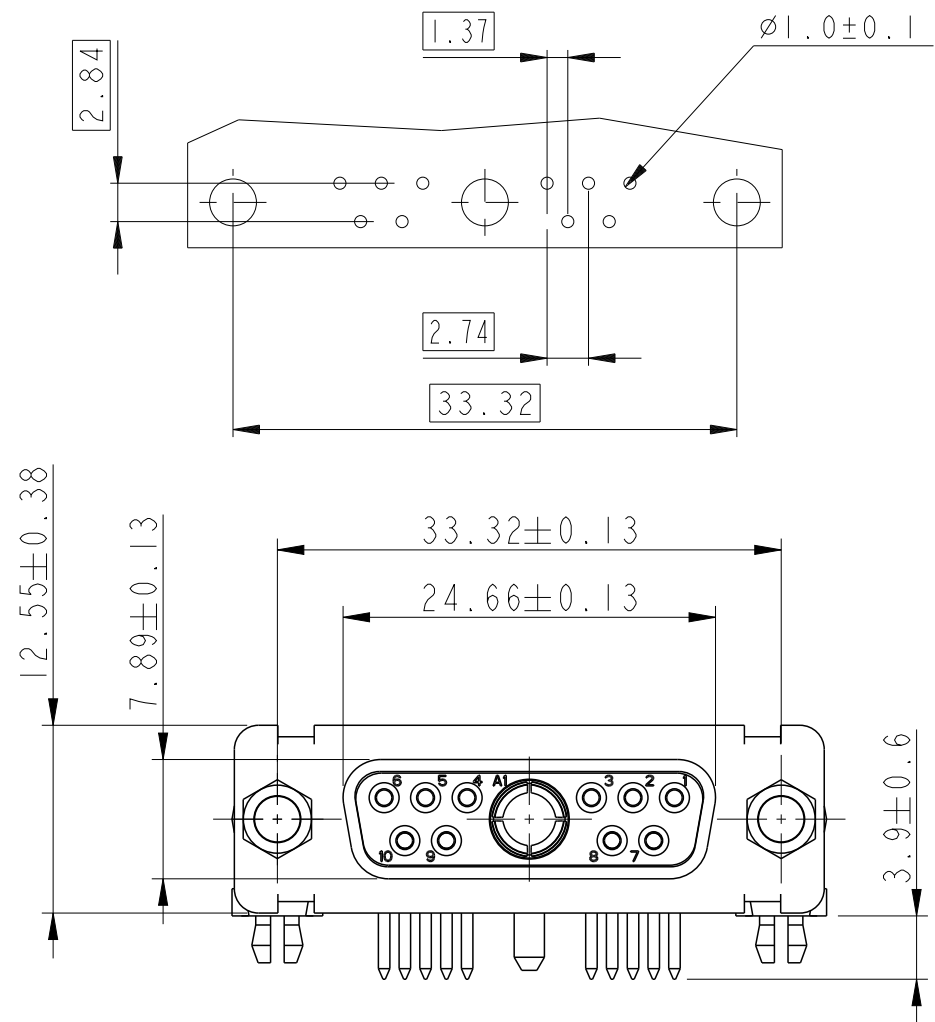
27W2

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS743A30LF	30	500	without	without
D*LxWxS743A30LF	30	500	insert M3	without
D*OxWxS743A30LF	30	500	insert UNC 4.40	without
D*VxWxS743A30LF	30	500	female screw UNC 4.40	without
D*xWxS743H30LF	30	500	without	metal bracket+harpoon PCB 2.40mm
D*LxWxS743H30LF	30	500	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxS743H30LF	30	500	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxS743H30LF	30	500	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxS743G30LF	30	500	without	metal bracket+harpoon PCB 1.60mm
D*LxWxS743G30LF	30	500	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxS743G30LF	30	500	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxS543G30LF	30	500	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxS743M30LF	30	500	without	metal bracket
D*LxWxS743M30LF	30	500	insert M3	metal bracket
D*OxWxS743M30LF	30	500	insert UNC 4.40	metal bracket
D*VxWxS743M30LF	30	500	female screw UNC 4.40	metal bracket

spec ref		dr		1, Product Eng		2015/06/12		projection		mm		size		A2		scale		1:1					
tolerance std		eng		Paul Mithun		2019/02/20						ecn no		ELX-132325-2									
ISO 406		chr		-		-						rel level		Released									
ISO 1101		appr		K-Paul Biju		2019/02/20		product family		-													
surface		linear		0.X		±3		Amphenol FCI		title		SUB FEMALE DW US foot print		dwg no		C01-8639-2301C		rev		E			
																						mixed power right angled solder	
ISO 1302		angular		0°		±2°		cat. no.		-		Product - Customer Drw		sheet 3 of 6									

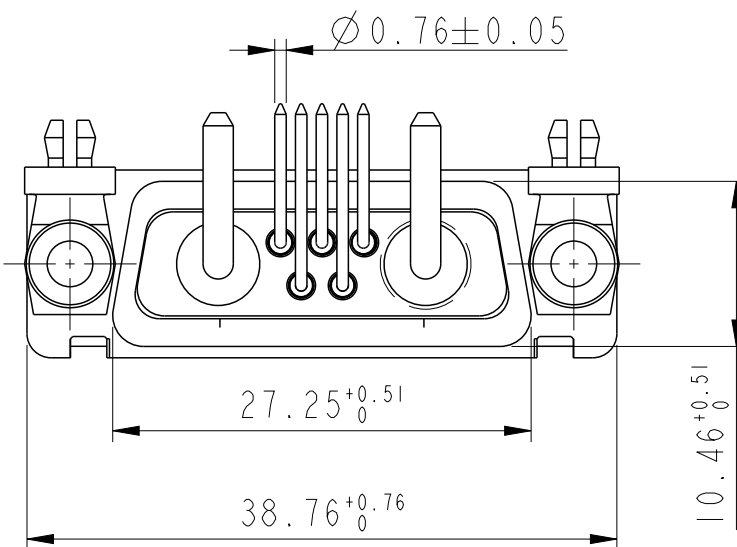
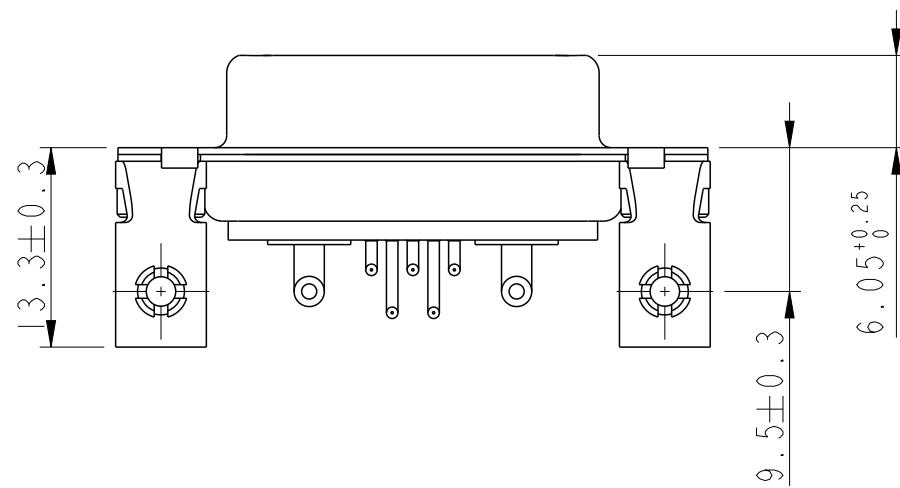
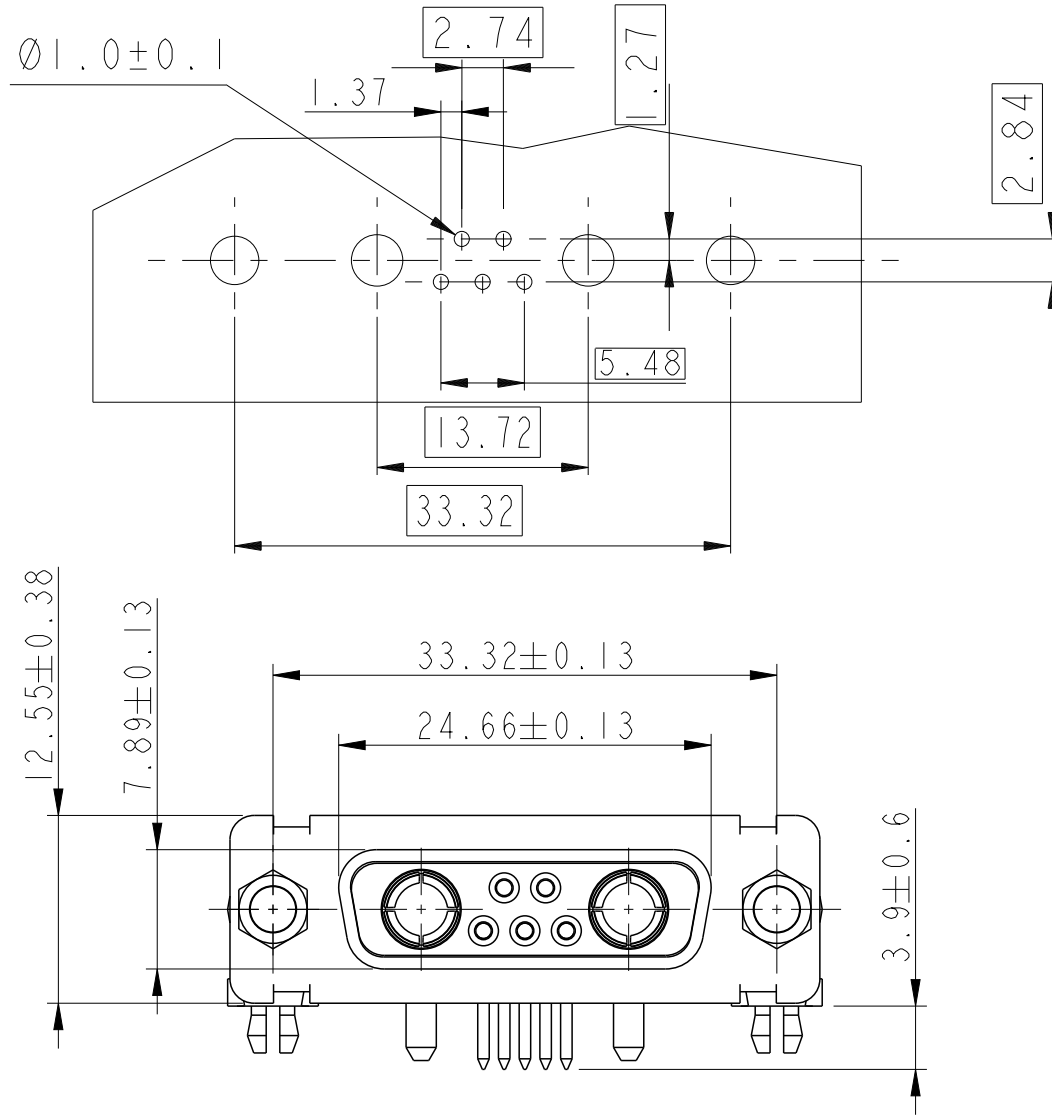
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I



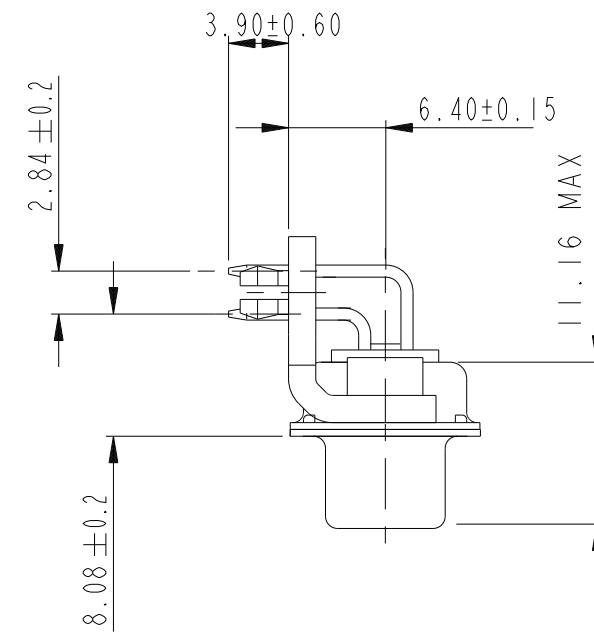
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I

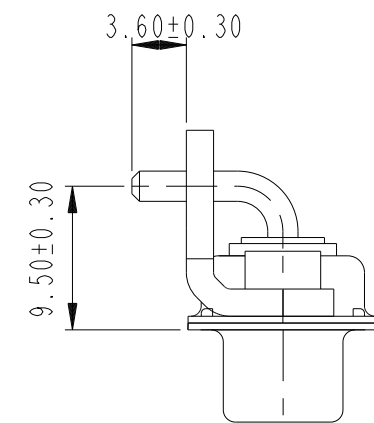


SIDE VIEW FOR ALL LAYOUTS

VIEW WITHOUT POWERS CONTACTS



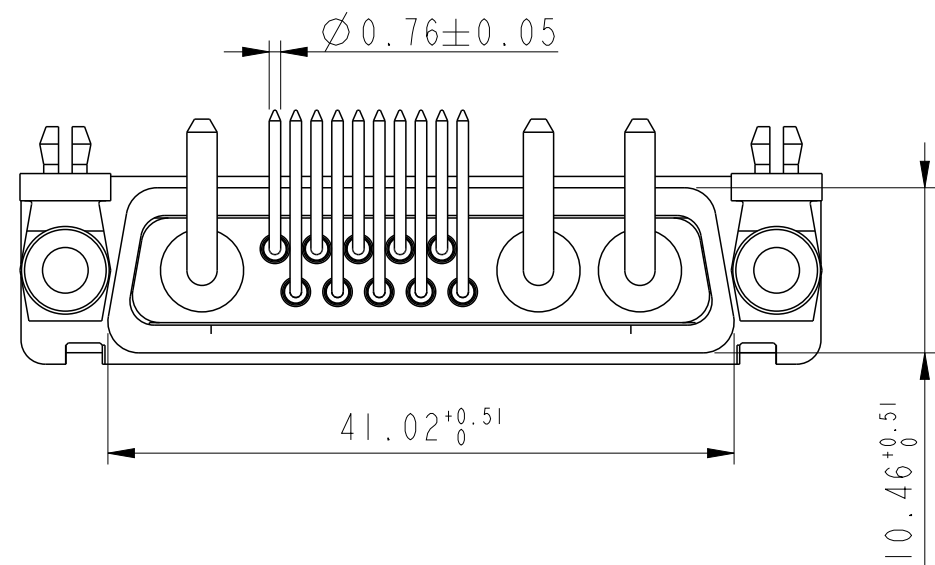
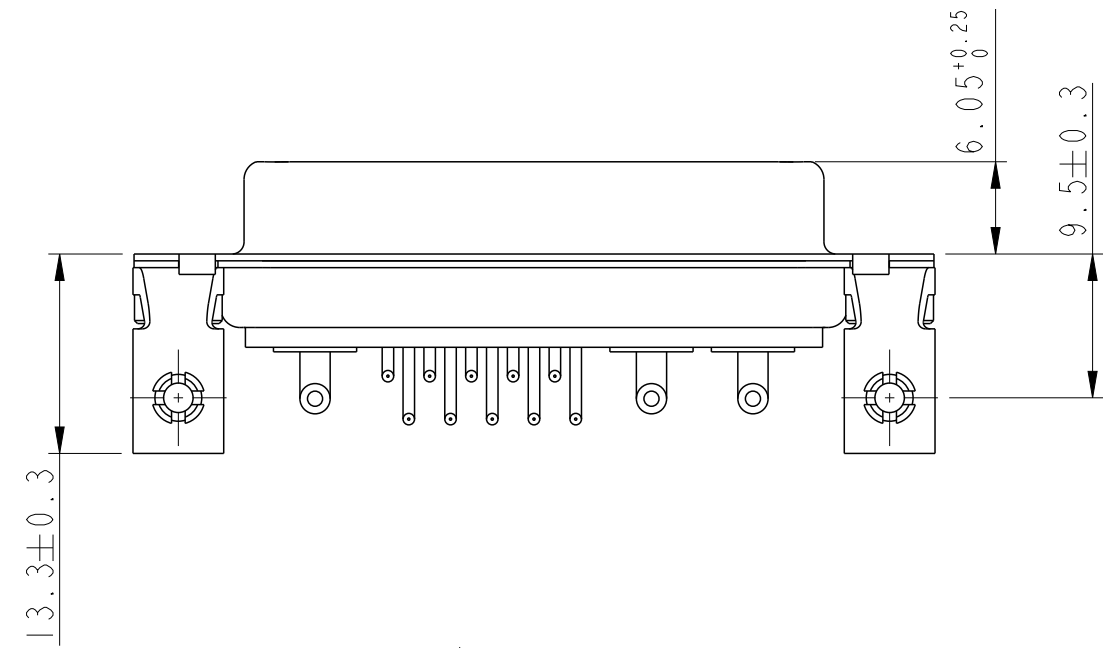
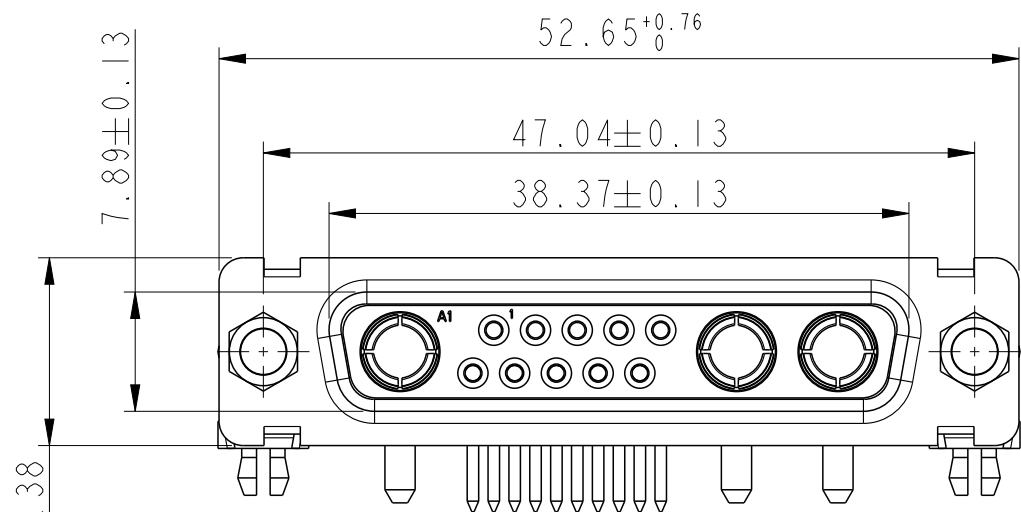
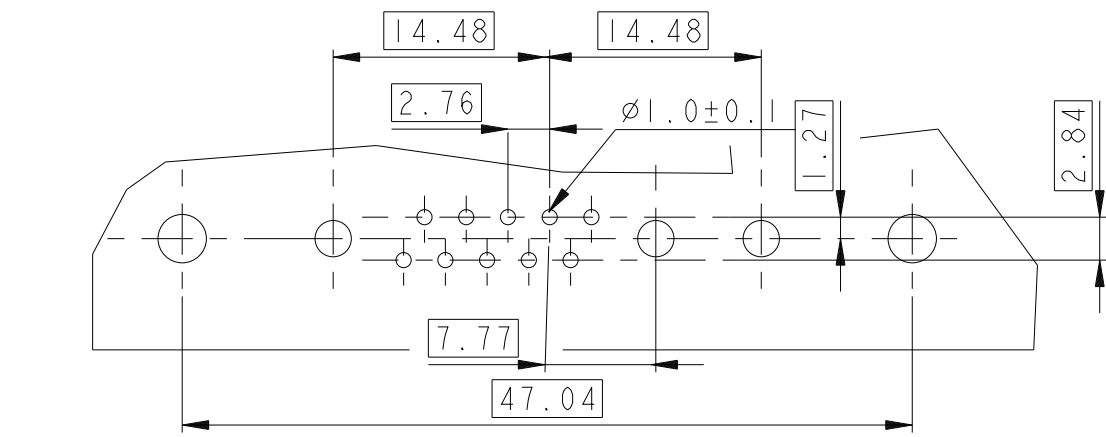
VIEW WITH POWERS CONTACTS



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ISO 406	chr	-		appr	K-Paul Biju	2019/02/20	product family	-	rel level
ISO 1101	appr	-							
surface	linear	0.X	±3	Amphenol FCI	title	SUB FEMALE DW US foot print	dwg no	C01-8639-2301C	rev
ISO 1302	angular	0°	±2°			mixed power right angled solder			E
					cat. no.	-	Product - Customer Drw	sheet 4 of 6	

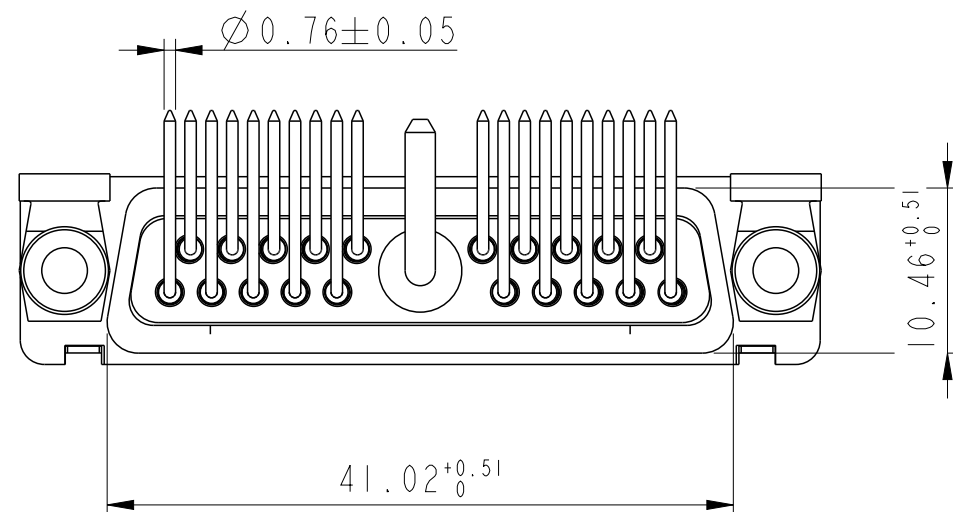
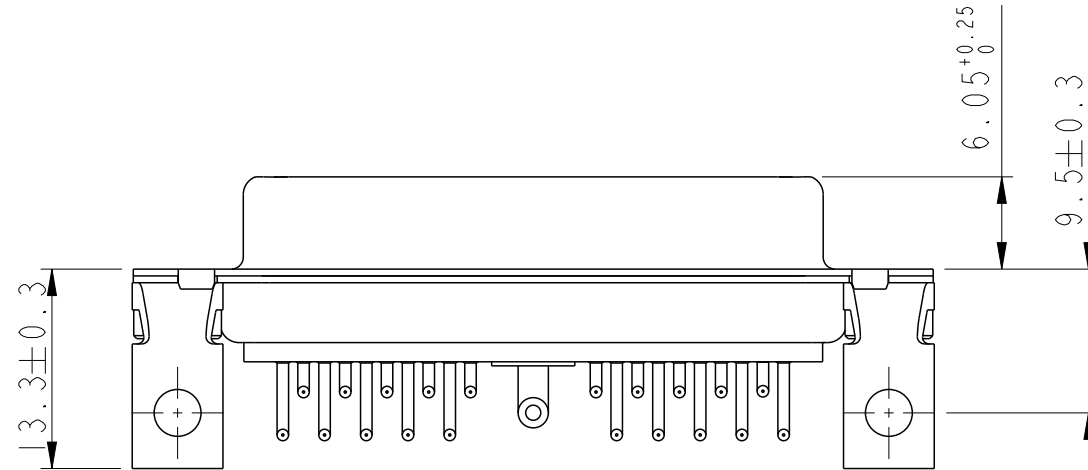
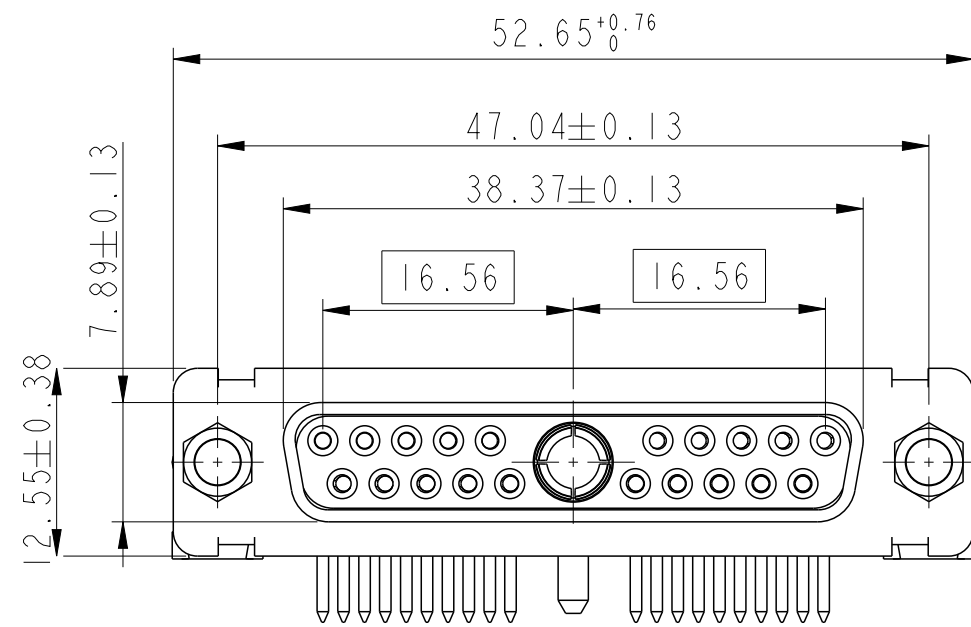
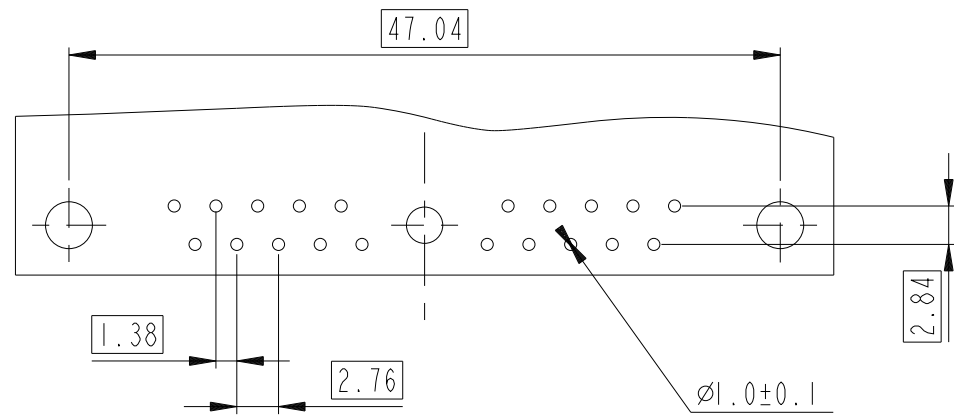
13W3

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



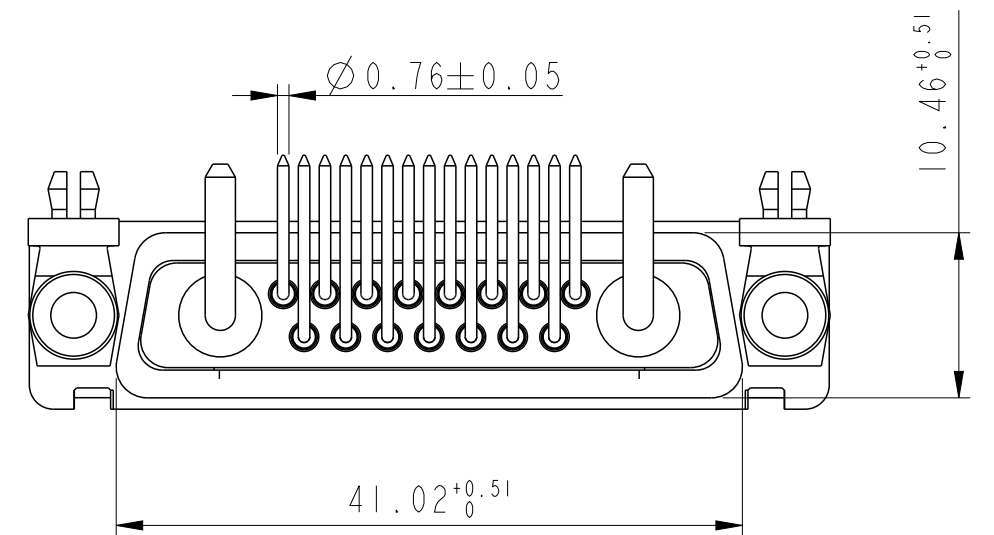
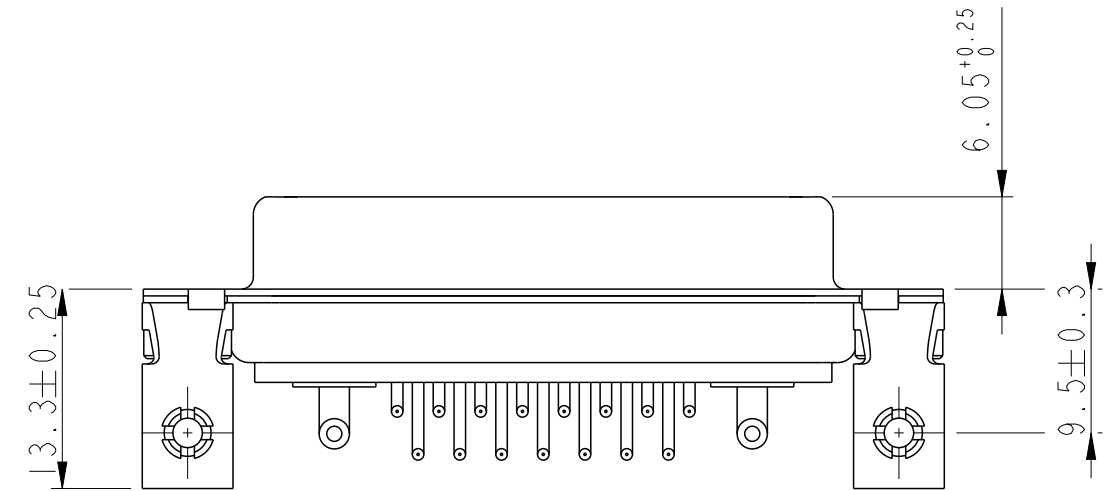
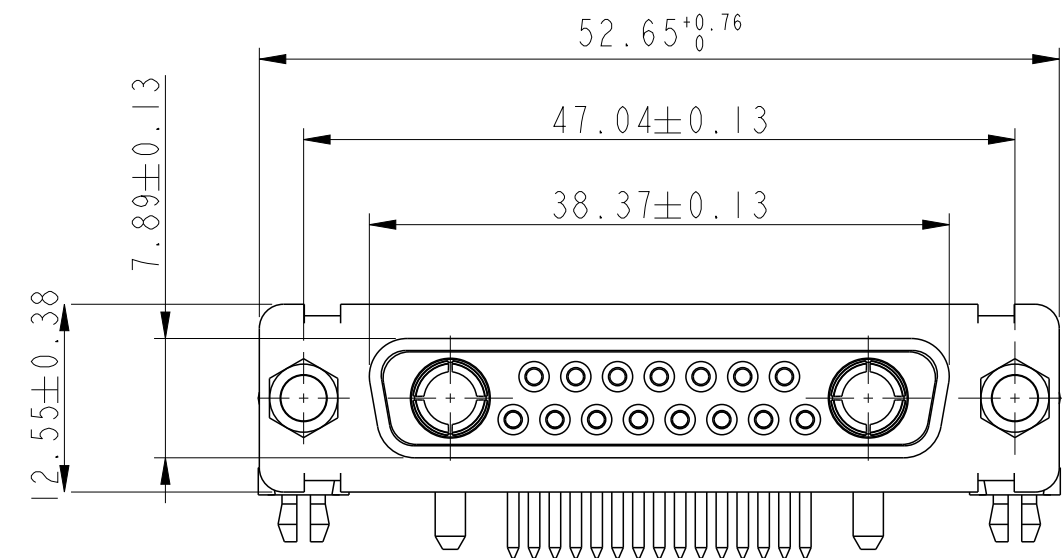
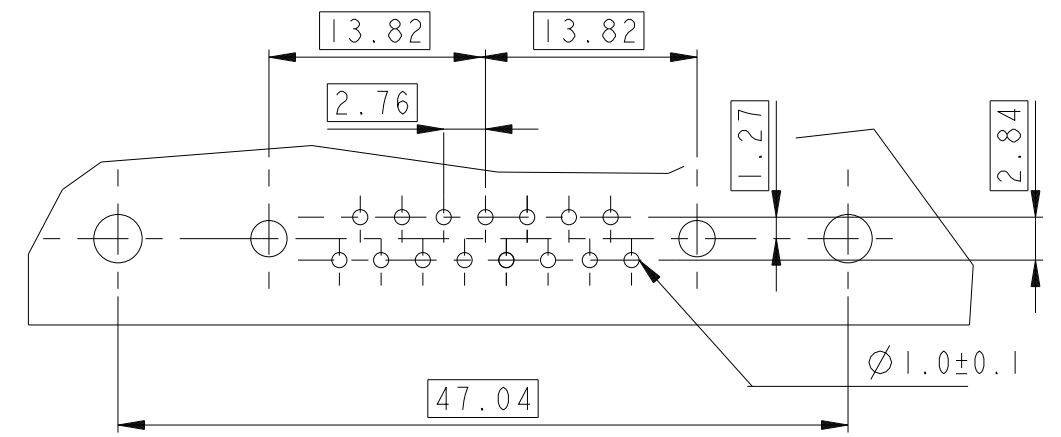
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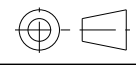
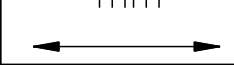
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



17W2

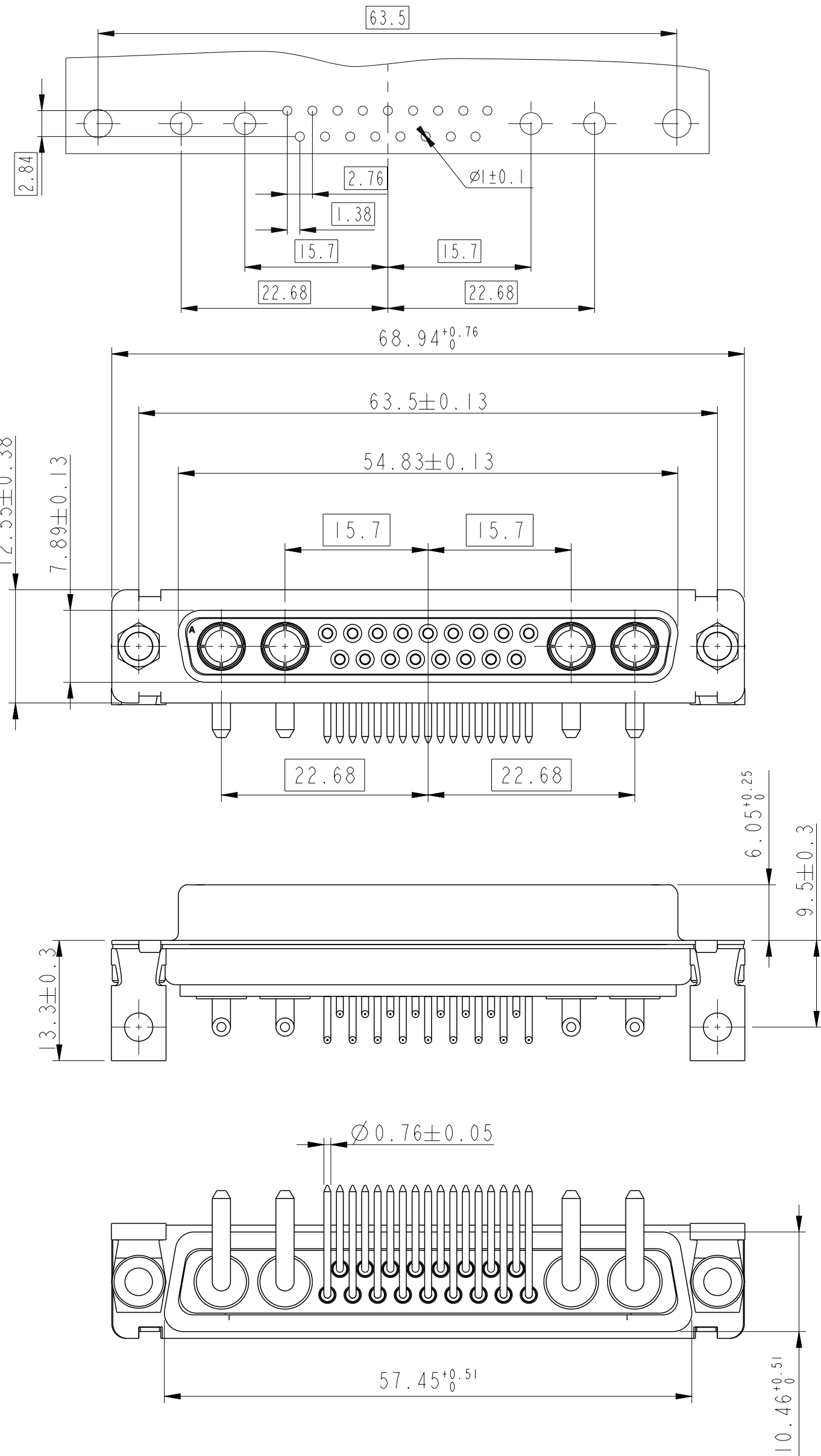
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



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tolerance std				eng		Paul Mithun		2019/02/20						ecn no		ELX-132325-2		rel level		Released									
ISO 406				chr		-		-																					
ISO 1101				appr		K-Paul Biju		2019/02/20														product family		-					
surface				linear		0.X		±3		Amphenol FCI		title		SUB FEMALE DW US foot print		dwg no		C01-8639-2301C		rev		E							
																								0.XX		±0.10			
																								0.XXX		±0.05			
																								angular		0°		±2°	
																								ISO 1302					
				cat. no.		-		Product - Customer Drw				sheet 5 of 6																	

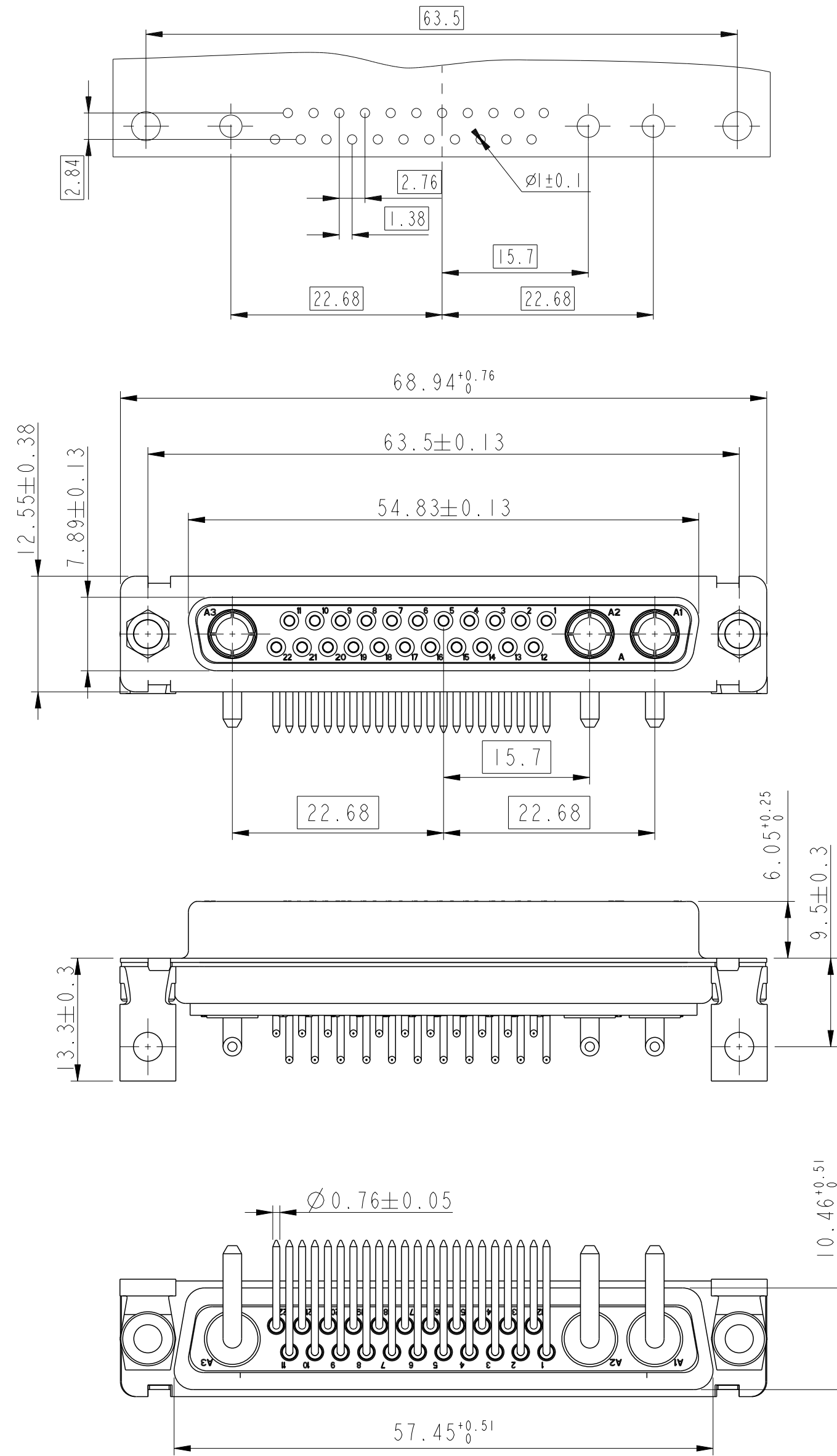
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LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



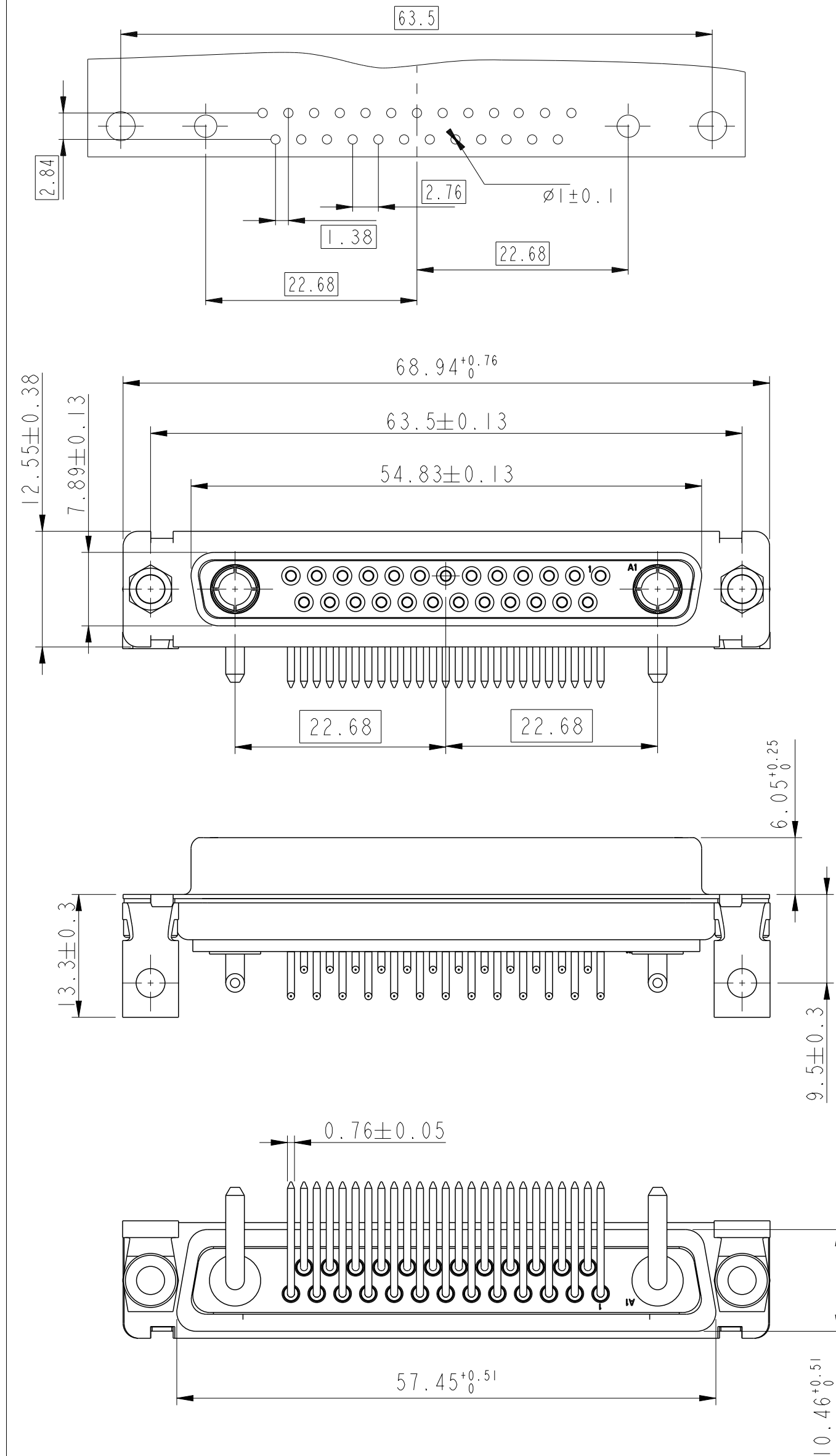
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LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



27W2

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



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tolerance std	eng	Paul Mithun	2019/02/20	chr	-	ecn no	ELX-32325-2	rel level	Released
ISO 406	app	K-Paul Biju	2019/02/20	product family	-	rel level	Released	rev	E
ISO 1101	surface	linear	0.X ±3	0.XX ±0.10	0.XXX ±±0.05	angular	0° ±2°	cat. no.	-
Amphenol FCI	title	SUB FEMALE DW US foot print	mixed power right angled solder	cat. no.	-	Product - Customer Drw	sheet 6 of 6	rev	E