

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

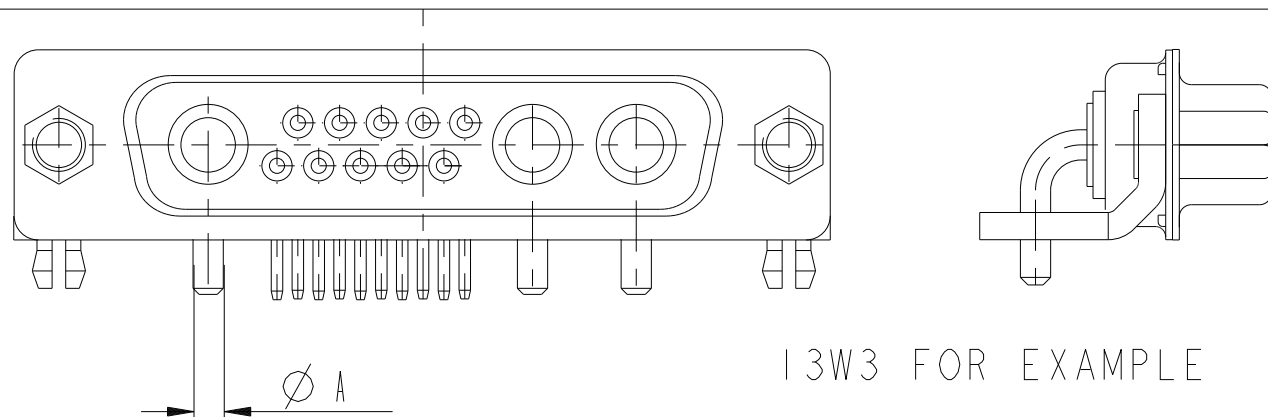
- A :without accessory
- H :Metal brackets+harpoons for PCB 2.40mm
- G :Metal brackets+harpoons for PCB 1.60mm
- M :Metal brackets

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

A

B

C

D

F

F

A

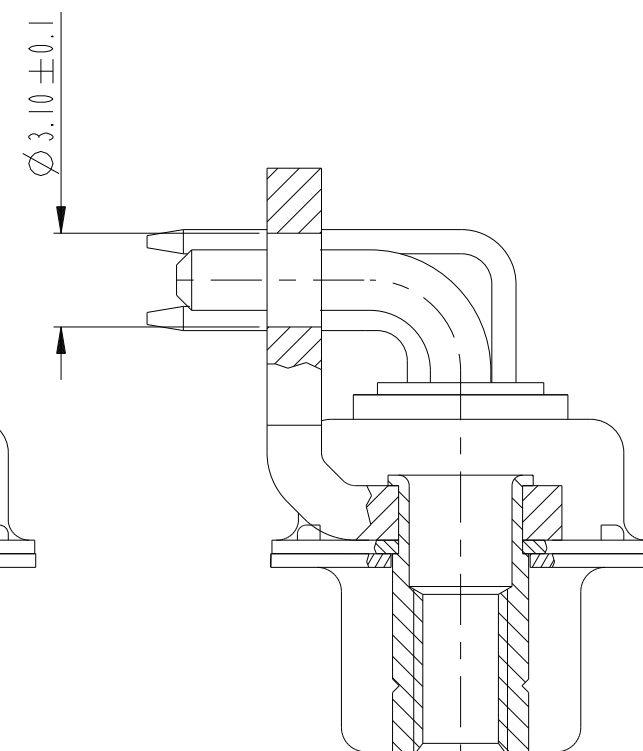
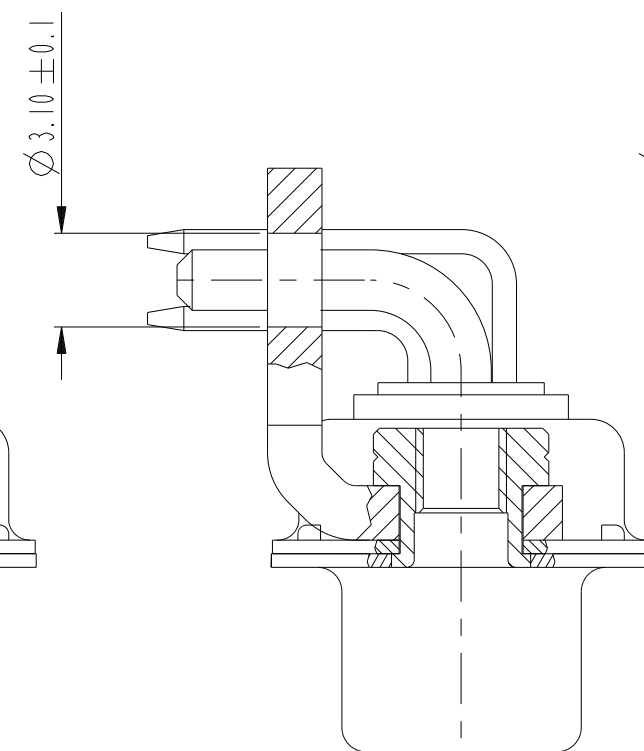
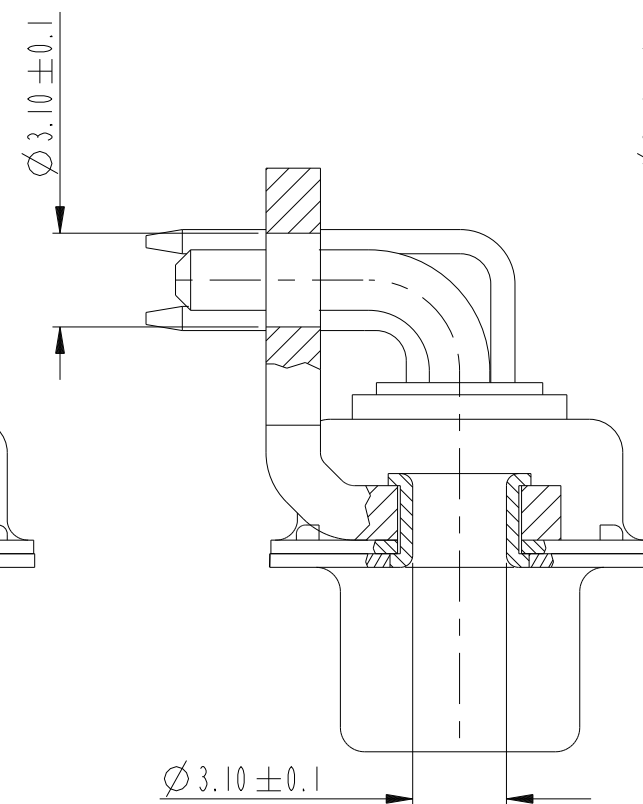
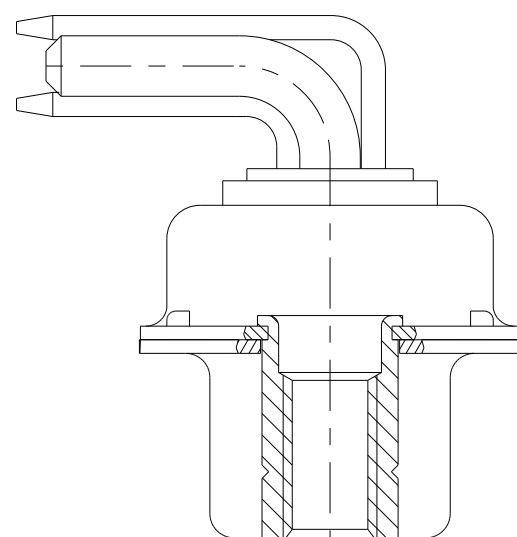
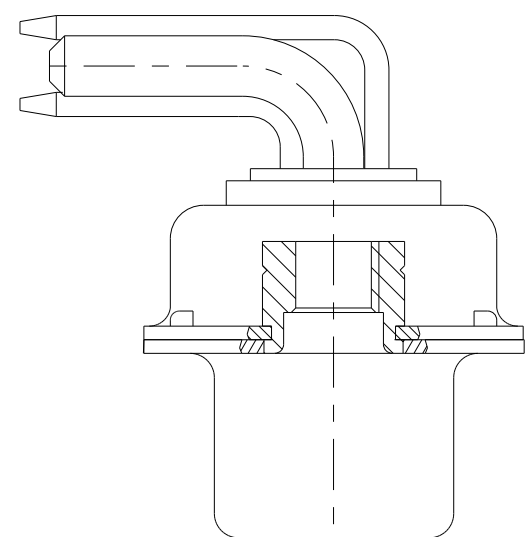
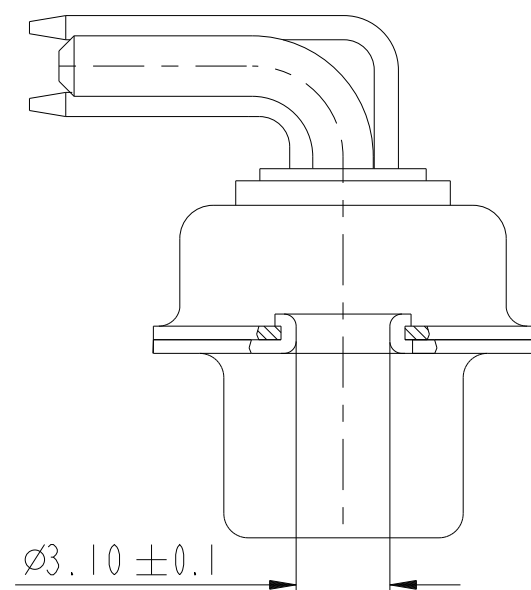
B

C

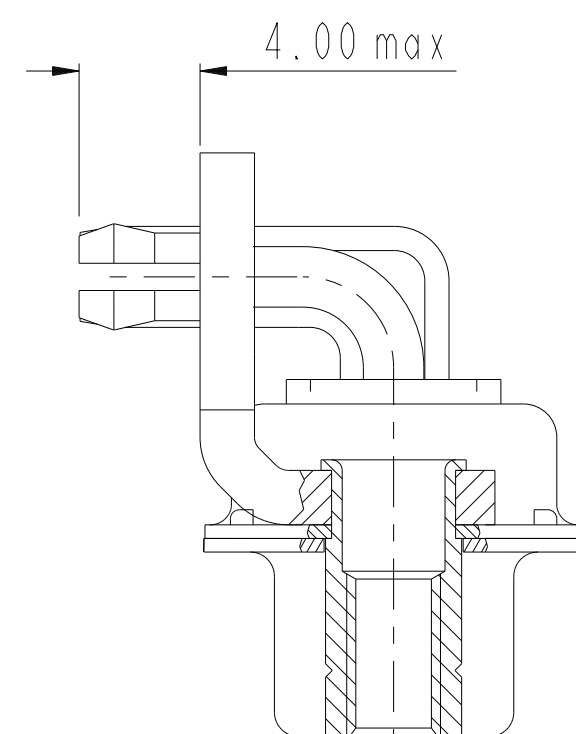
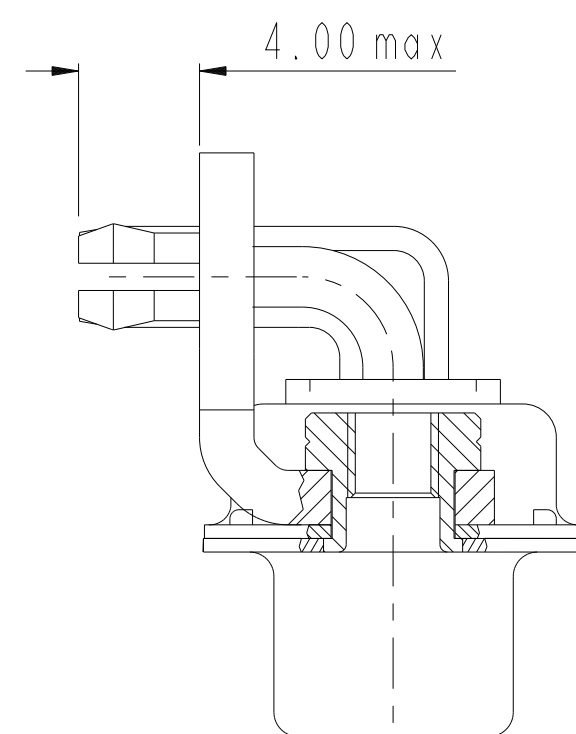
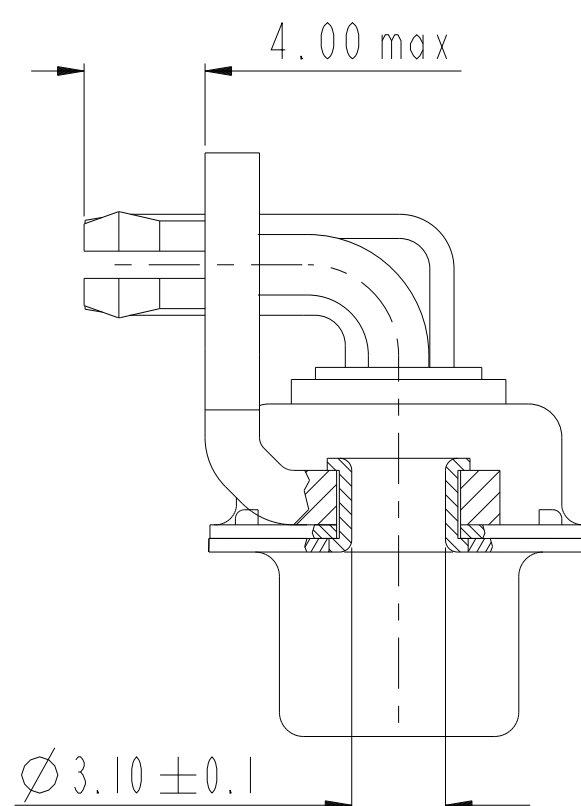
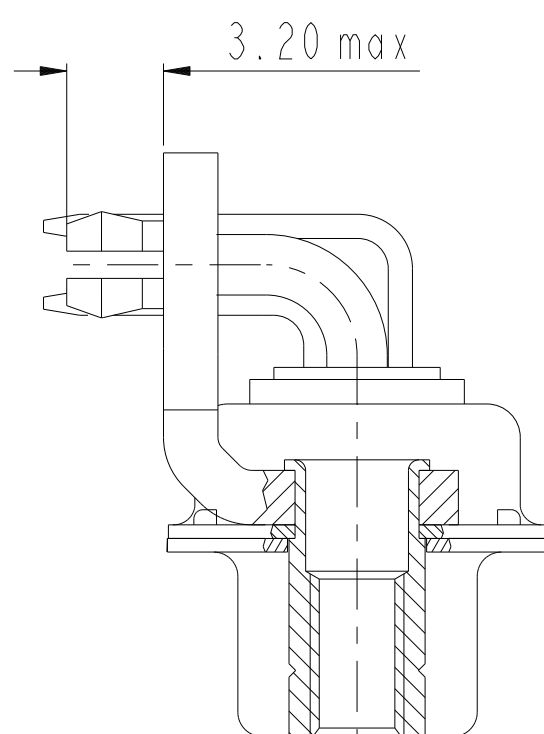
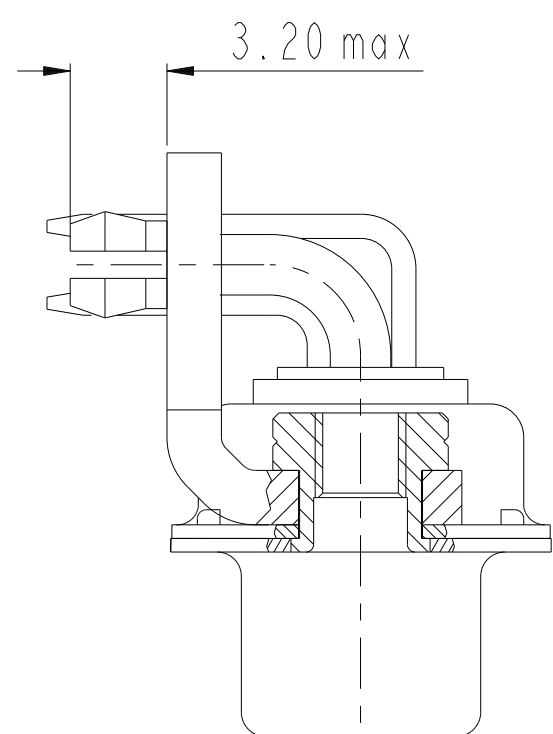
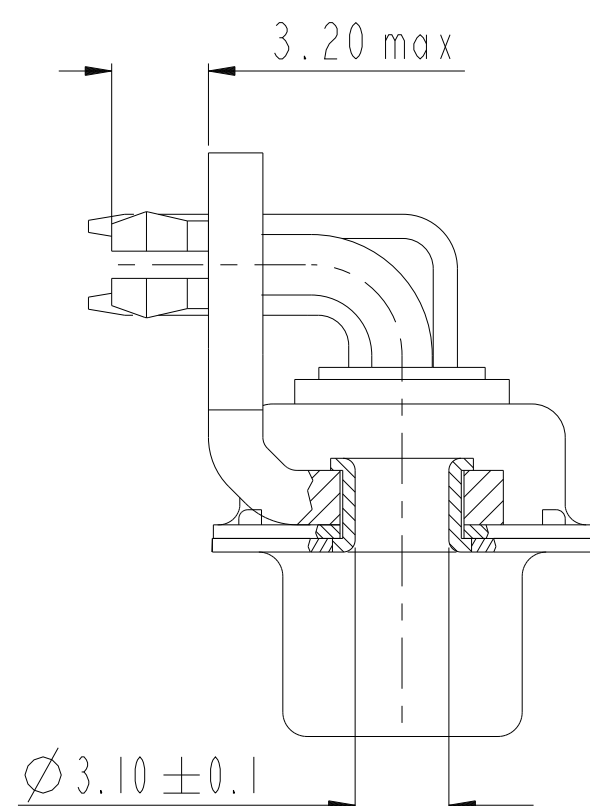
D

E

F



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	A Without	A Without	A Without	M Metal brackets	M Metal brackets	M Metal bracket



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		scale							
tolerance std		eng		Paul Mithun		2019/02/20				A2		1:1							
ISO 406		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		-		-		ecn no		ELX-I-32325-2							
ISO 1101				appr		K-Paul Biju				2019/02/20		product family		rel level					
												Released							
surface  ISO 1302		linear 		0.X		±3		Amphenol FCI		title		SUB FEMALE DW US foot print mixed power right angled solder		dwg no		C01-8639-2301C		rev	
				0.XX		±0.10													
				0.XXX		±±0.05													
				0°		±2°													

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

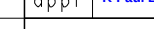
13W3

25W3

21WA4

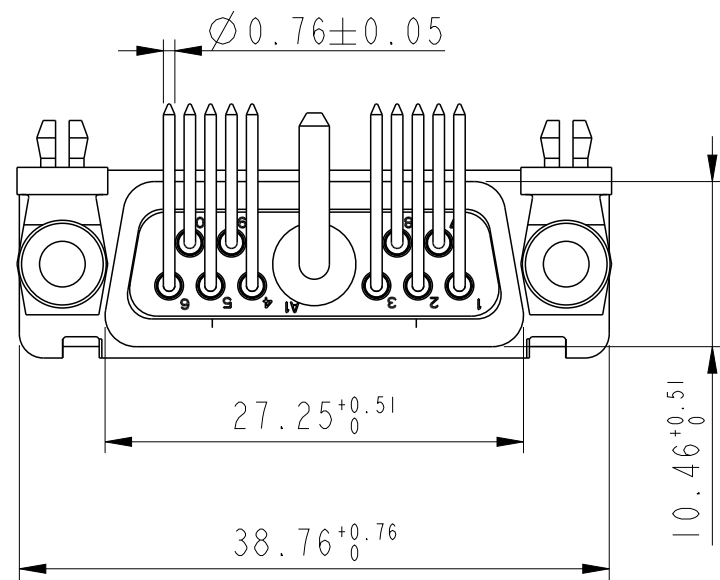
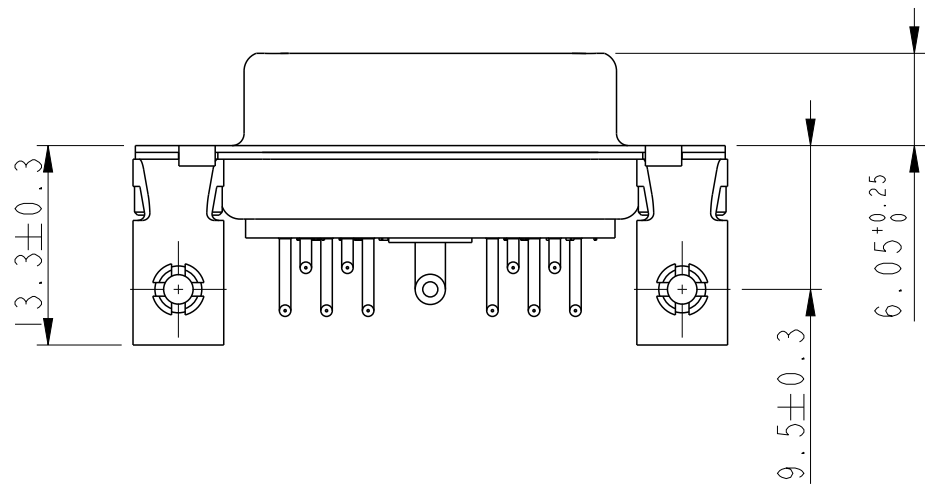
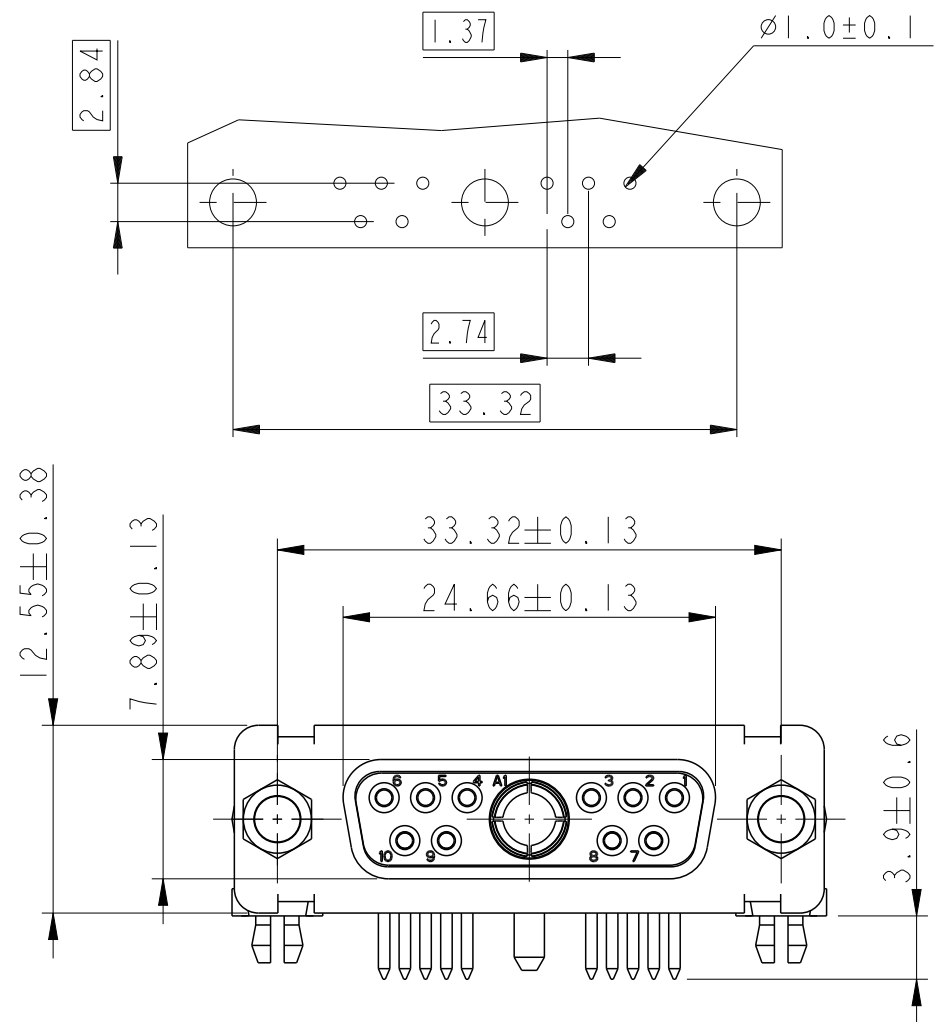
27W2

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

LAYOUT AND CONNECTOR DIMENSIONS

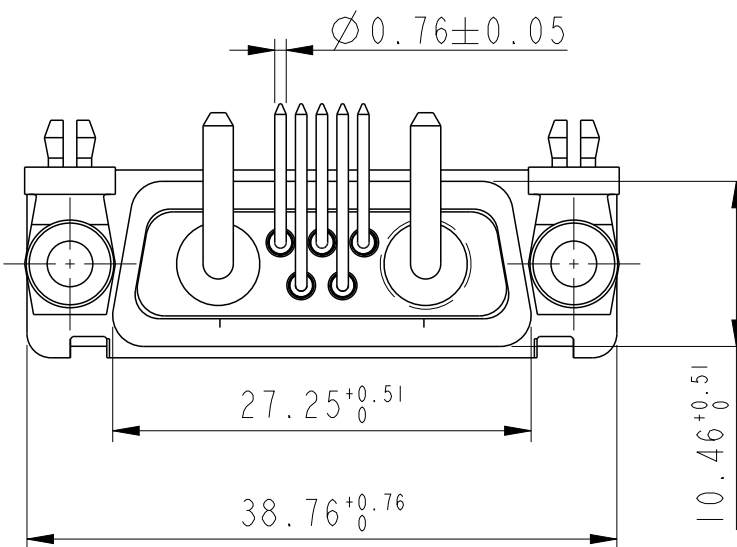
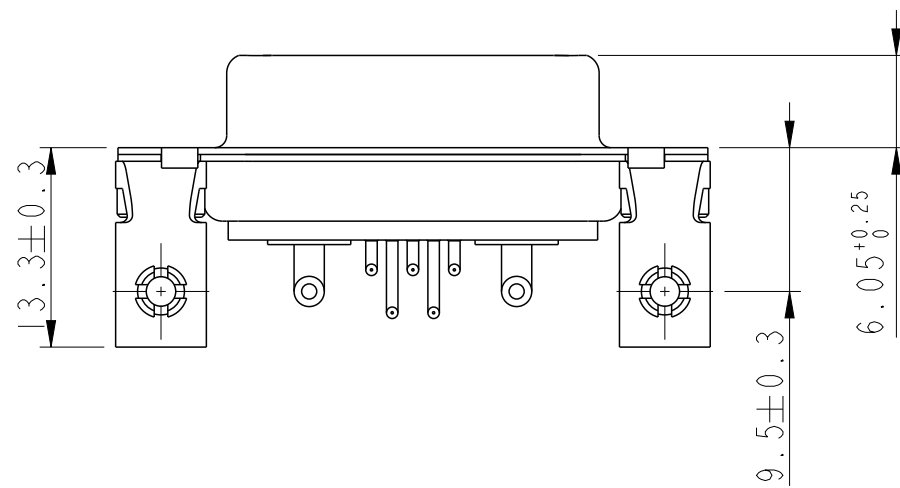
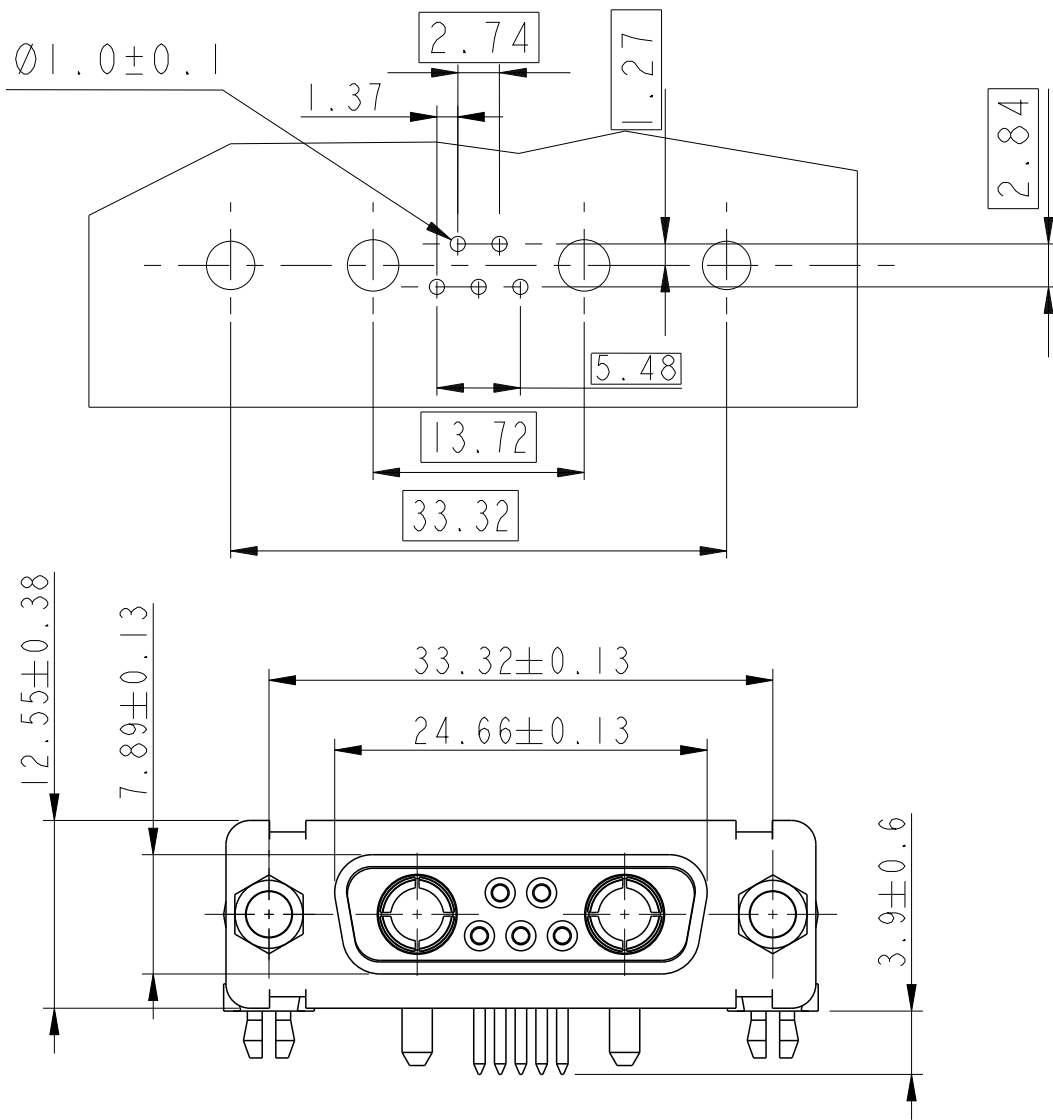
For PCB hole diameters see table I sheet I



7W2

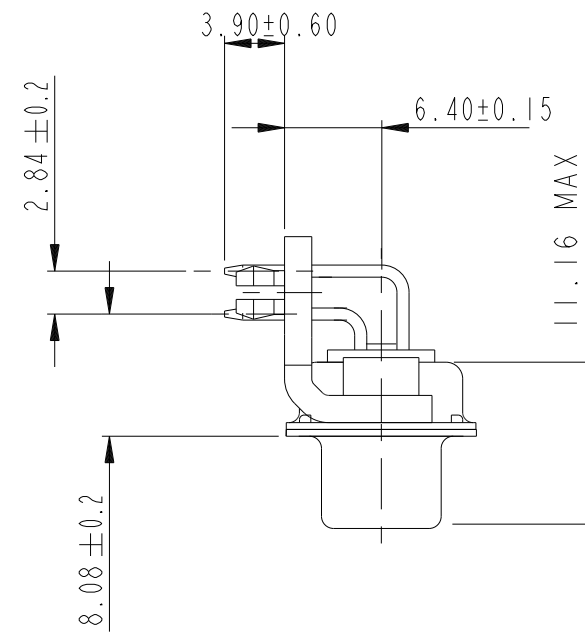
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I

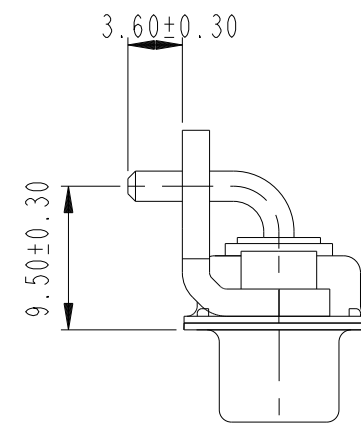


SIDE VIEW FOR ALL LAYOUTS

VIEW WITHOUT POWERS
CONTACTS



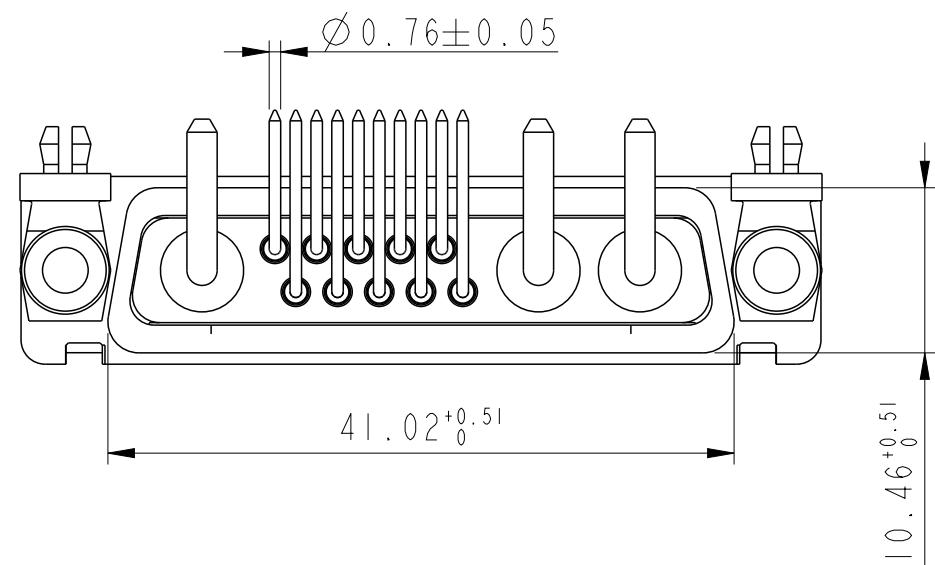
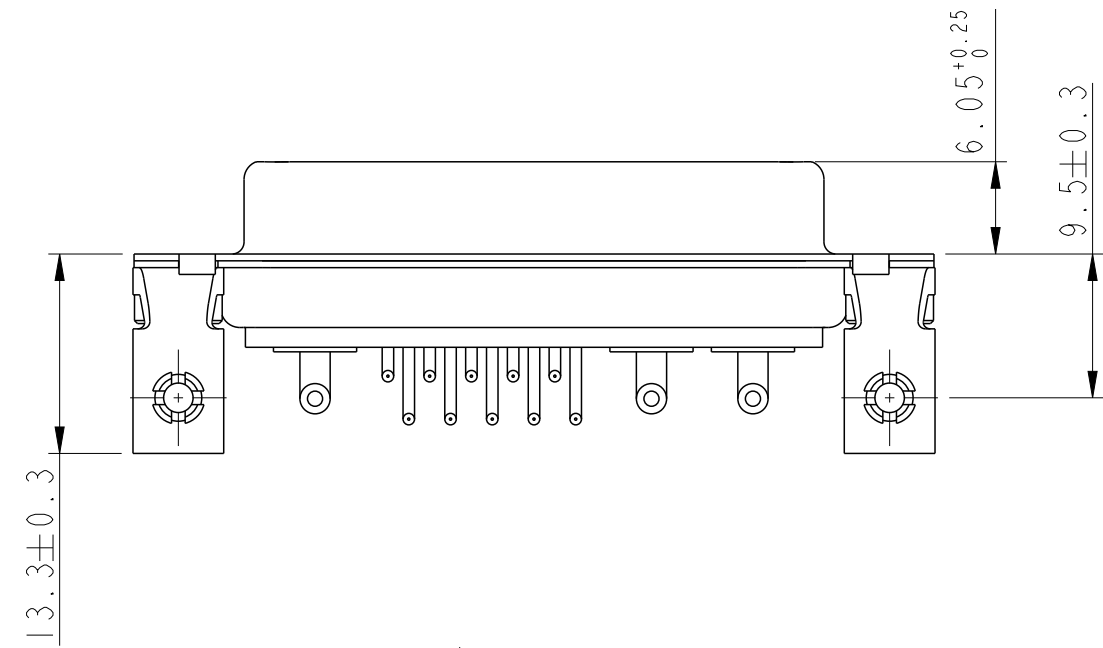
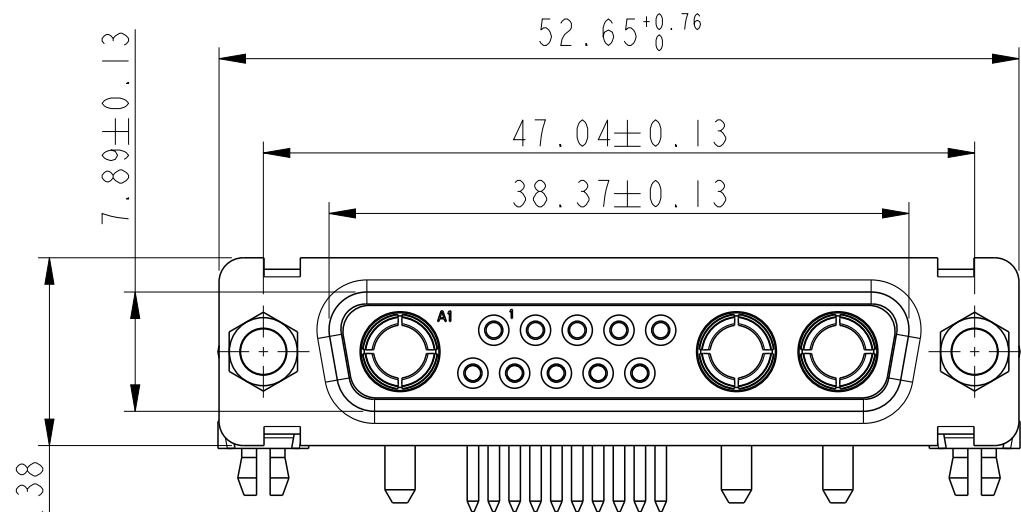
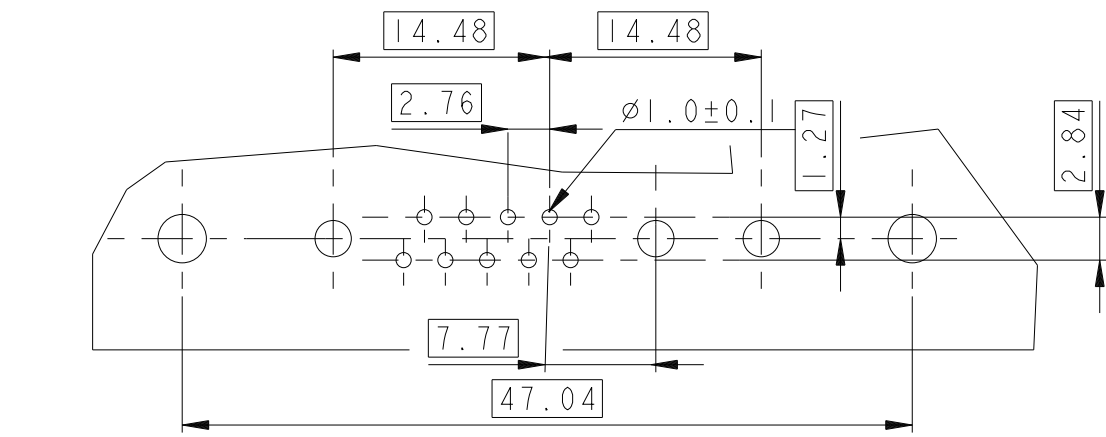
VIEW WITH POWERS
CONTACTS



spec ref	dr	1, Product Eng	2015/06/12	projection	mm	size	A2	scale	2:1
tolerance std	eng	Paul Mithun	2019/02/20	chr	-	ecn no	ELX-132325-2		
ISO 406	chr	-	-	appr	K-Paul Biju	2019/02/20	product family	-	rel level
ISO 1101									Released
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	

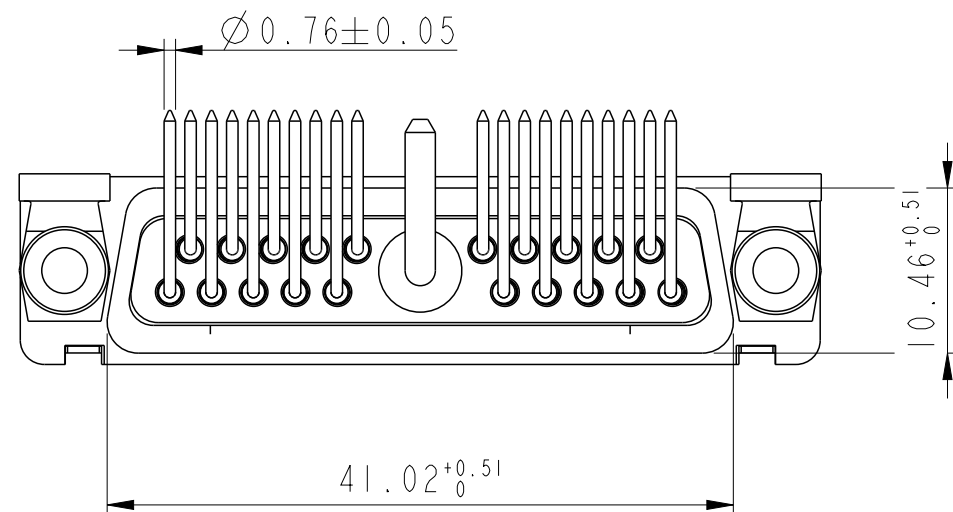
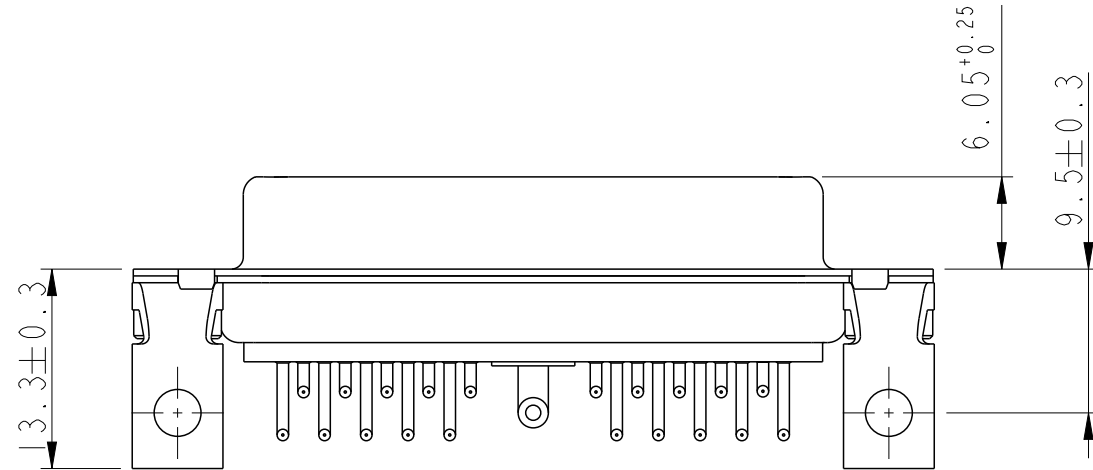
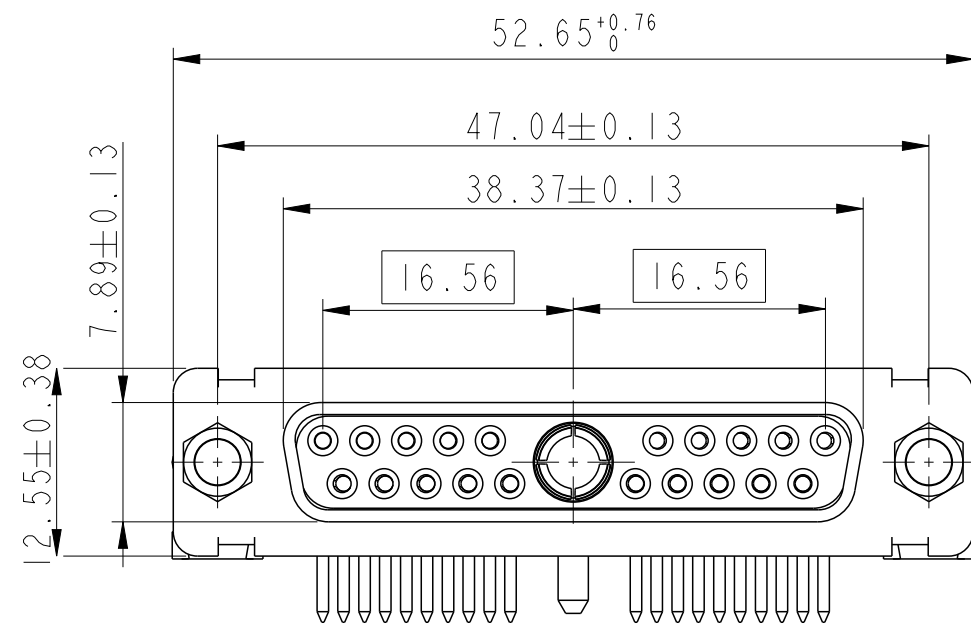
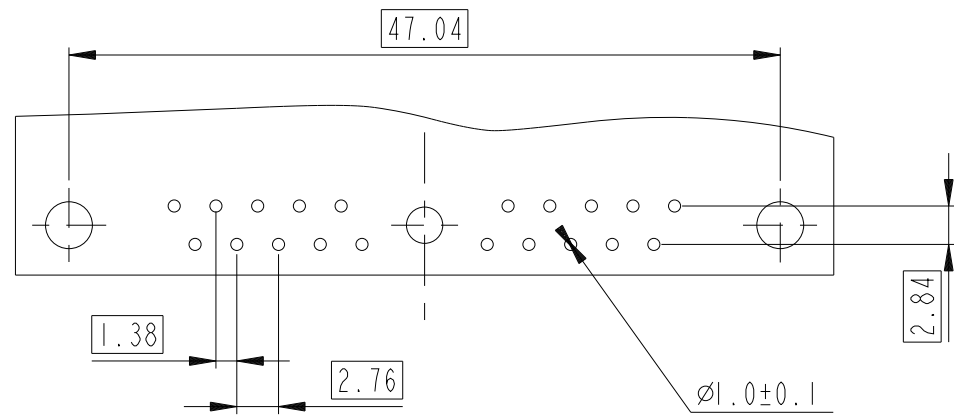
13W3

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



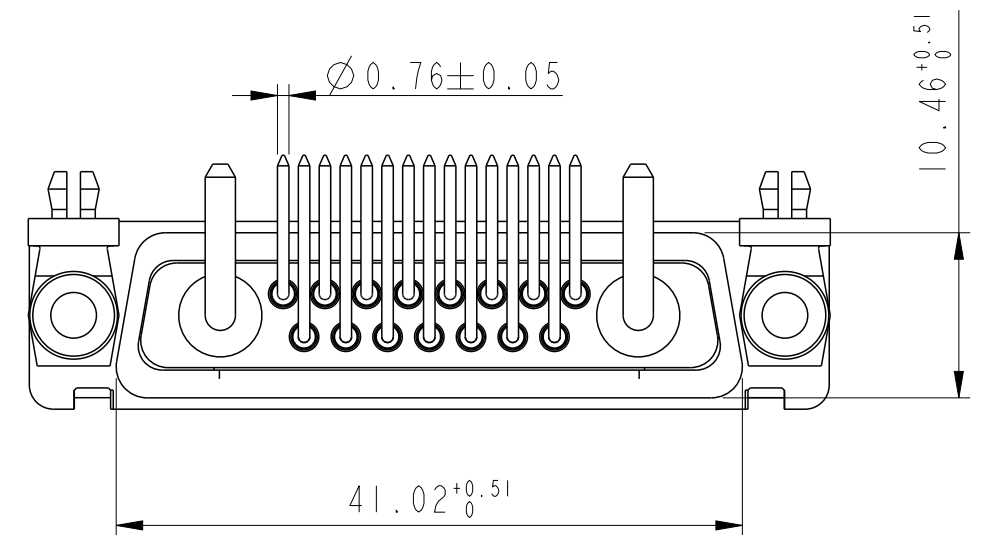
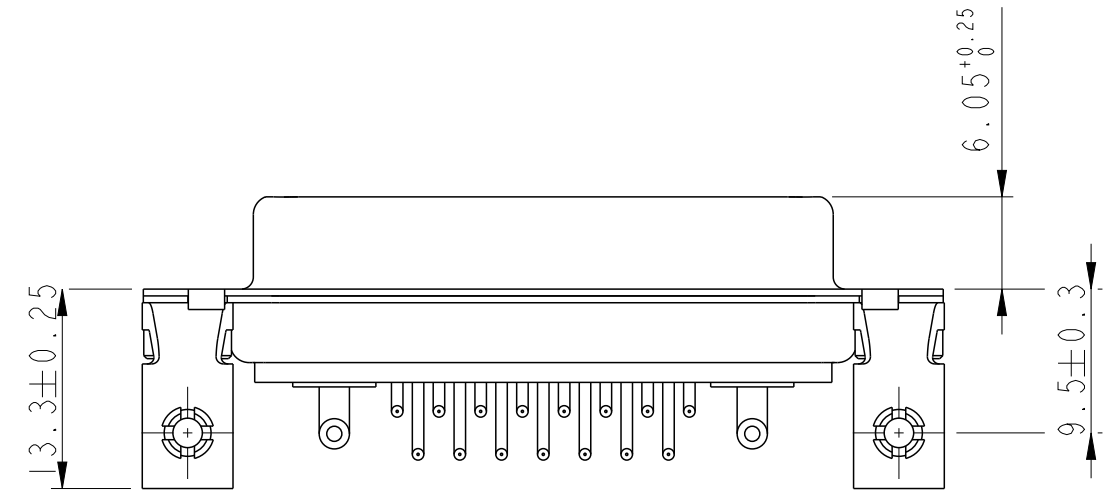
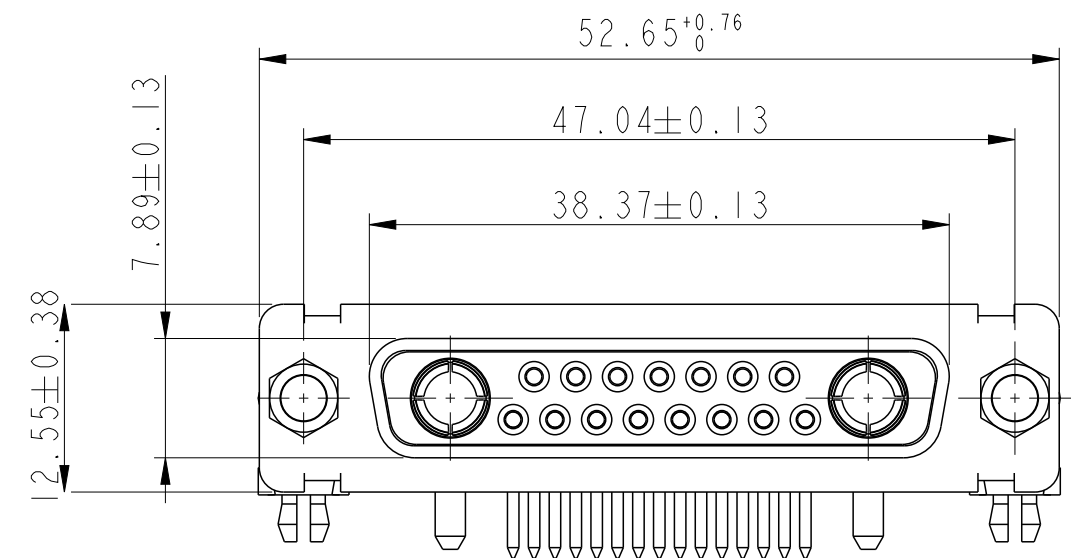
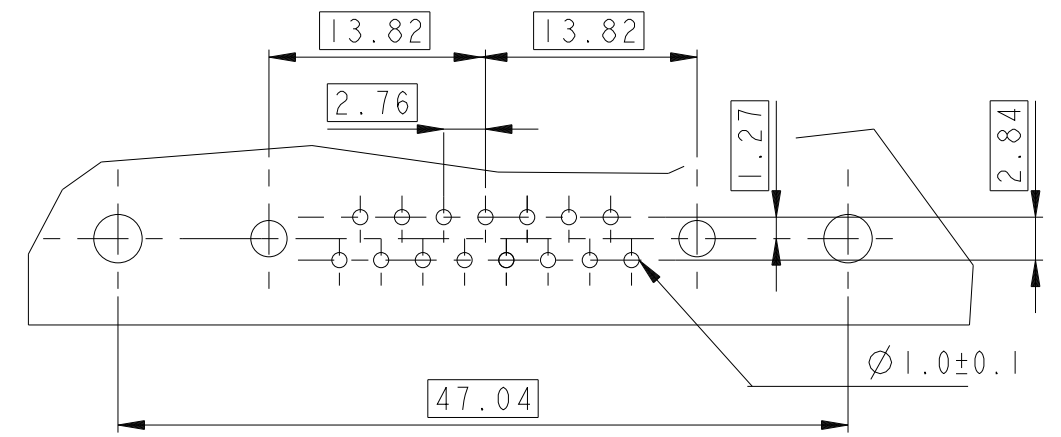
21W1

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



17W2

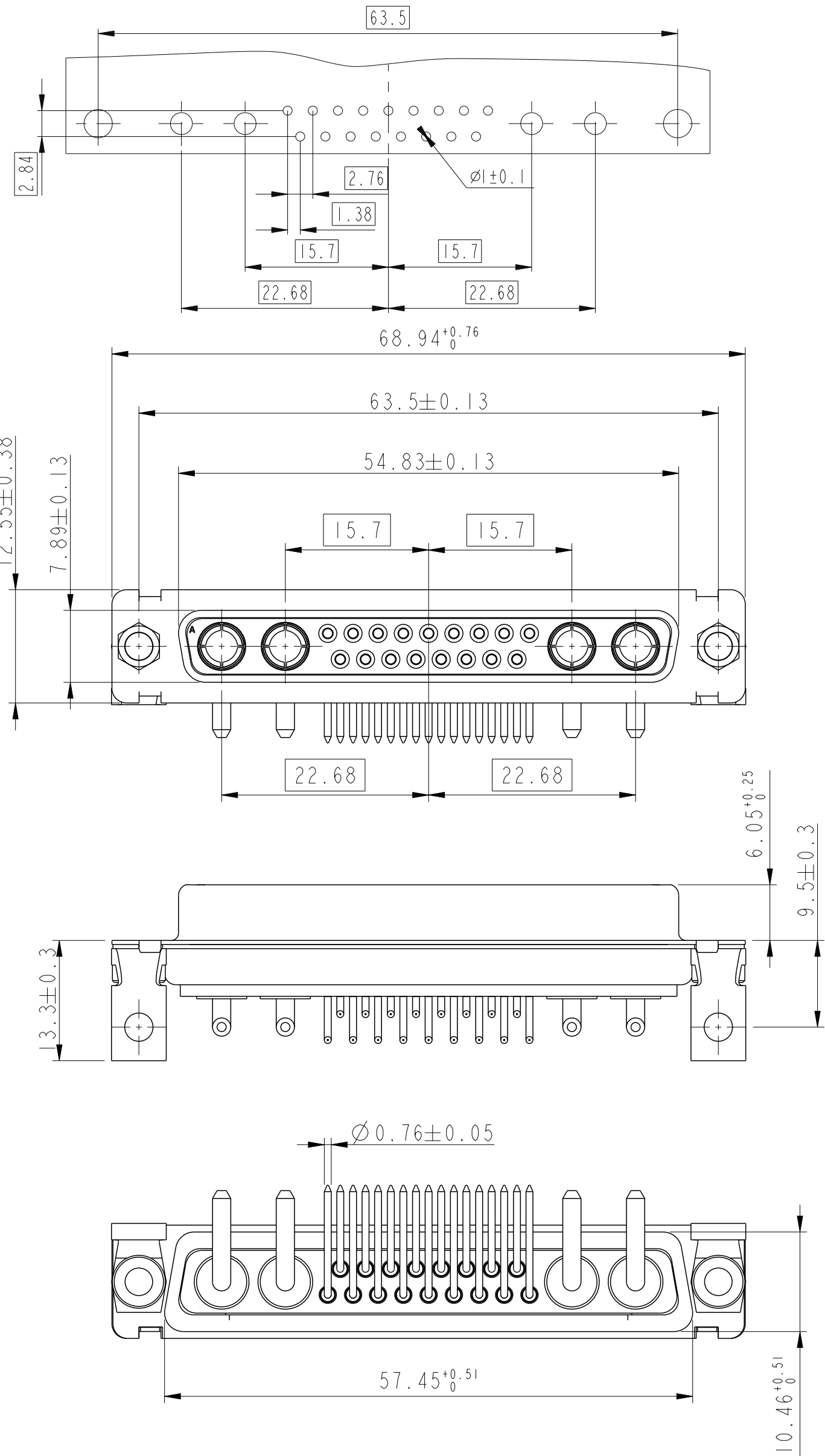
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



spec ref				dr		1, Product Eng		2015/06/12		projection		mm		size		A2		scale		2:1							
tolerance std				eng				Paul Mithun				2019/02/20				ecn no		ELX-132325-2									
ISO 406				chr				-				-															
ISO 1101				appr				K-Paul Biju				2019/02/20															
TOLERANCES UNLESS OTHERWISE SPECIFIED												product family				-				rel level				Released			
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																							
ISO 1302				angular		0°		±2°				cat. no.		-		Product - Customer Drw				sheet 5 of 6							

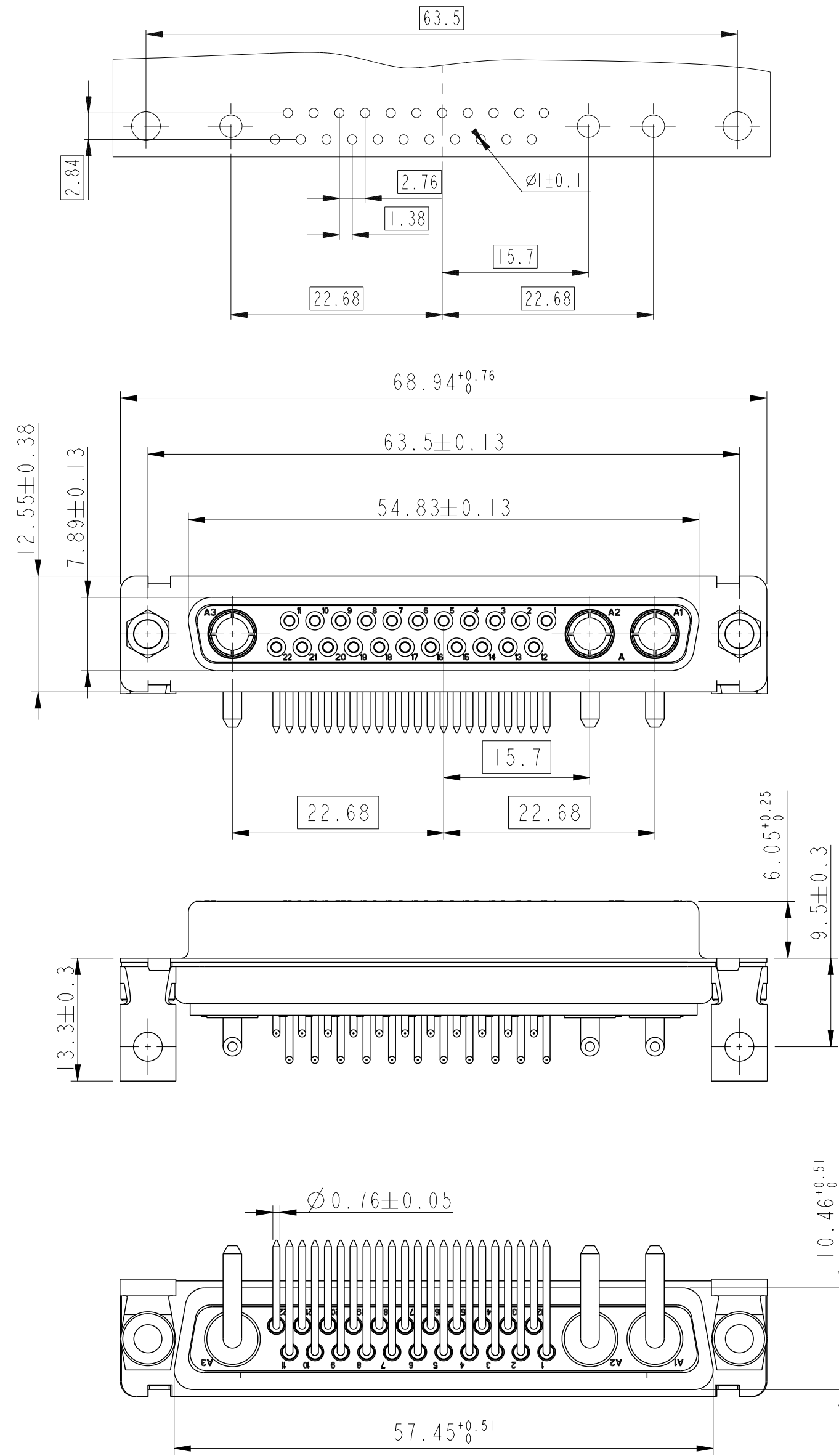
21WA4

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



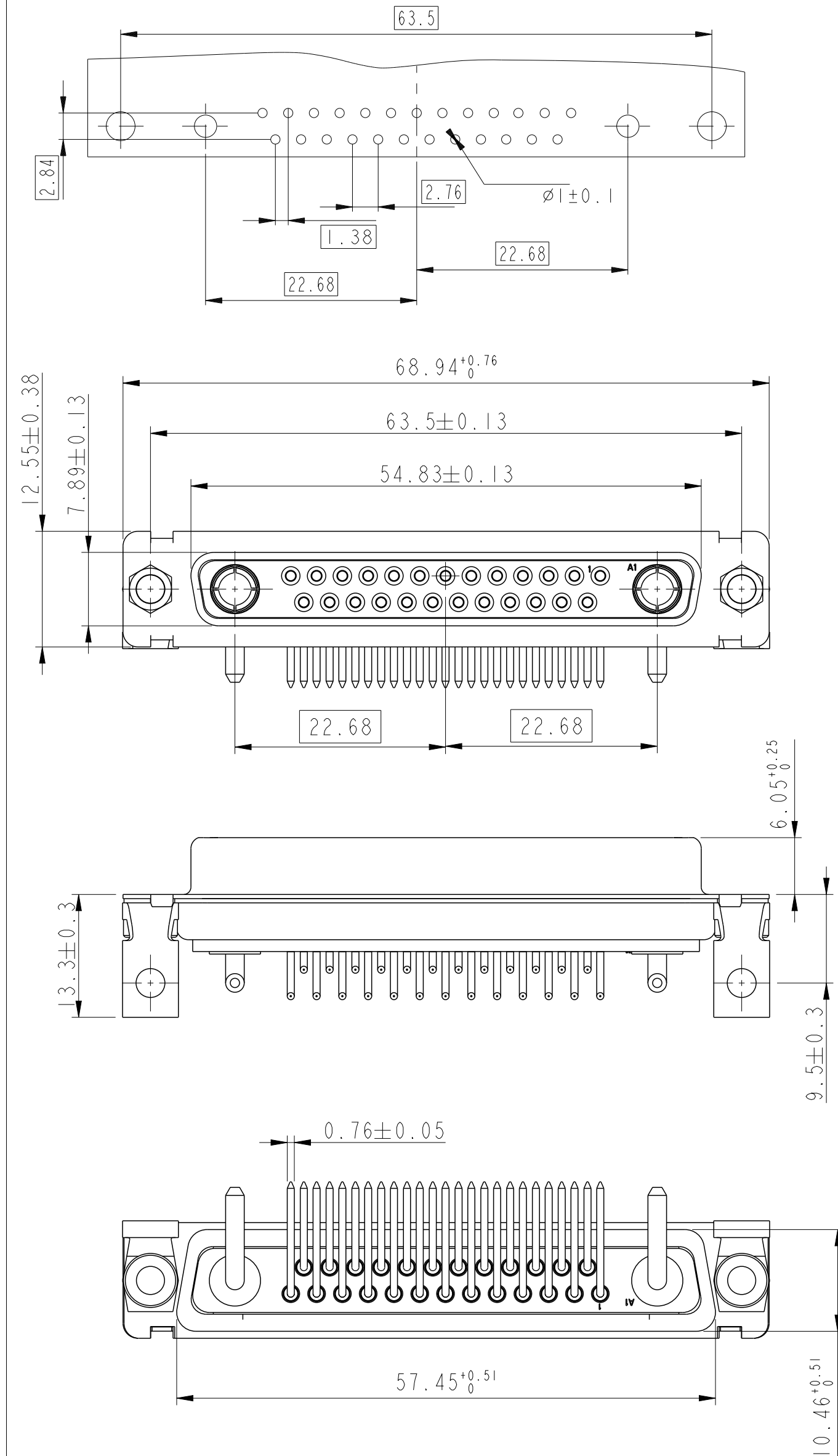
25W3

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



spec ref		dr		1, Product Eng		2015/06/12		projection		size		scale			
tolerance std		eng		Paul Mithun		2019/02/20		 mm		A2		2:1			
ISO 406		chr		-		-				ecn no		ELX-132325-2			
ISO 1101		appr		K-Paul Biju		2019/02/20				product family		-		Released	
surface		linear		Amphenol FCI		title		SUB FEMALE DW US foot print		dwg no		C01-8639-2301C		rev	
ISO 1302						mixed power right angled solder								E	
		angular				cat. no.		-		Product - Customer Drw				sheet 6 of 6	
						0.X ±3									
						0.XX ±0.10									
						0.XXX ±±0.05									
						0° ±2°									