

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 or 40A (POWER CONTACT)

-CONTACT RESISTANCE: 7.3 m Ohms(SIGNAL and POWER)

-CONTACT/CONTACT : 1000 V

-CONTACT/GROUND : 1200 V

-INSULATION RESISTANCE: 5000 MOhms

ENVIRONEMENTAL 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 + 3 to 10µmm Sn,pure bright
- Accessories: Sn pure bright
- Packaging spec: See GS-14-920

Series

DBL13W3S300G30LF

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

Front accessory definition
see sheet 2

L :threaded insert M3
O :threaded insert UNC 4-40
V :female screw UNC 4-40

Layout of contacts (see sheet 3)

Contacts
S :Socket

Termination type
3 Straight version

Plating
00 200 matings/unmatings
43 500 matings/unmatings

PCB accessories definition
see sheet 2

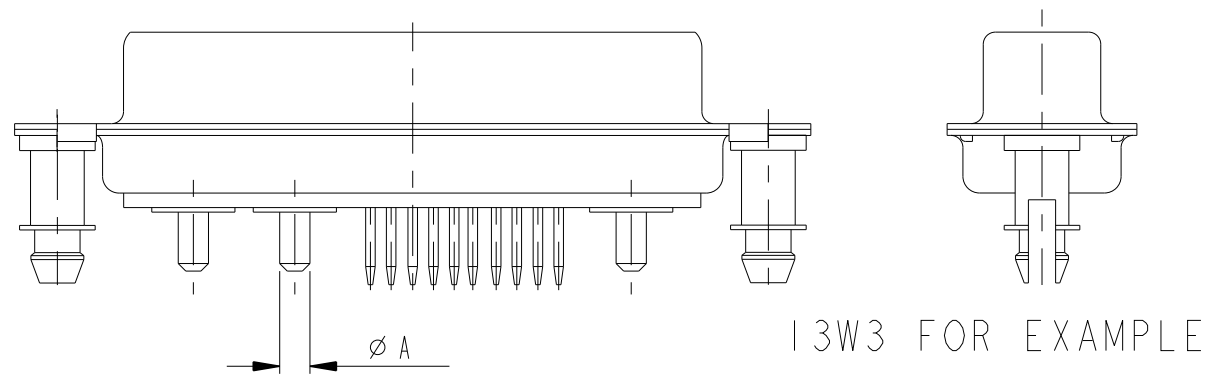
H :harpoons for PCB 2.40mm
G :harpoons for PCB 1.60mm

Power contacts
30 :Fitted with power contacts 30 Amp.
40 :Fitted with power contacts 40 Amp.

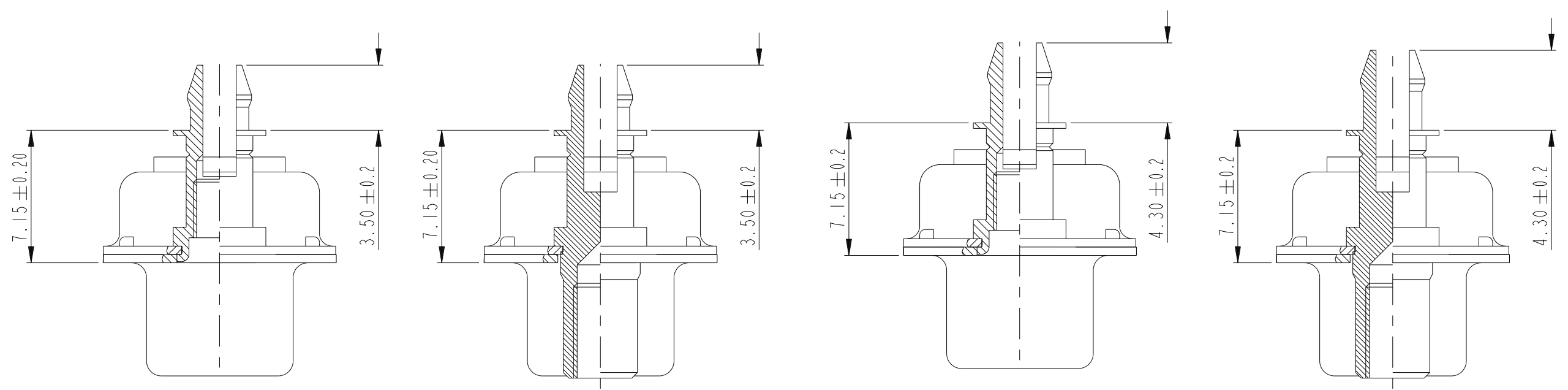
See note RoHS

TABLE 1:PCB HOLE DIAMETERS

POWER CONTACTS			ACCESSORIES	SIGNAL CONTACTS
30 A	2.00	ø2.40	ø3.10	Ø1.00
40 A	2.80	3.10		
Max current power	ØA ±0.1	PCB HOLE +/-0.1	PCB HOLE +/-0.1	PCB HOLE +/-0.1



spec ref				dr		1, Product Eng		2015/06/12		projection		MM		size		A2		scale		1:1			
tolerance std				eng		Gregar Mathew		2019/11/11						ecn no		ELX-132909-1		rel level		Released			
ISO 406				chr		-		-															
ISO 1101				appr		Varma Sudhir		2019/11/12														product family	
TOLERANCES UNLESS OTHERWISE SPECIFIED																							
surface				linear		0.X		±0.3		Amphenol FCi		title		SUB FEMALE DW		dwg no		C01-8639-2302c		rev		K	
ISO 1302				0.XX		±0.1																	
				0.XXX		±0.05																	
angular				0°		±22°																	
																</							



FRONT ACCESSORY	L insert M3 O insert UNC 4.40	V insert UNC 4.40	L insert M3 O insert UNC 4.40	V insert UNC 4.40
PCB ACCESSORIES	G Harpoon for PCB 1.60mm	G Harpoon for PCB 1.60mm	H Harpoon for PCB 2.40mm	H Harpoon for PCB 2.40mm

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*LxWxS300G30LF	30	200	insert M3	harpoon PCB 1.60mm
D*OxWxS300G30LF	30	200	insert UNC 4.40	harpoon PCB 1.60mm
D*VxWxS300G30LF	30	200	female screw UNC 4.40	harpoon PCB 1.60mm
D*LxWxS300H30LF	30	200	insert M3	harpoon PCB 2.40mm
D*OxWxS300H30LF	30	200	insert UNC 4.40	harpoon PCB 2.40mm
D*VxWxS300H30LF	30	200	female screw UNC 4.40	harpoon PCB 2.40mm
D*LxWxS300G40LF	40	200	insert M3	harpoon PCB 1.60mm
D*OxWxS300G40LF	40	200	insert UNC 4.40	harpoon PCB 1.60mm
D*VxWxS300G40LF	40	200	female screw UNC 4.40	harpoon PCB 1.60mm
D*LxWxS300H40LF	40	200	insert M3	harpoon PCB 2.40mm
D*OxWxS300H40LF	40	200	insert UNC 4.40	harpoon PCB 2.40mm
D*VxWxS300H40LF	40	200	female screw UNC 4.40	harpoon PCB 2.40mm

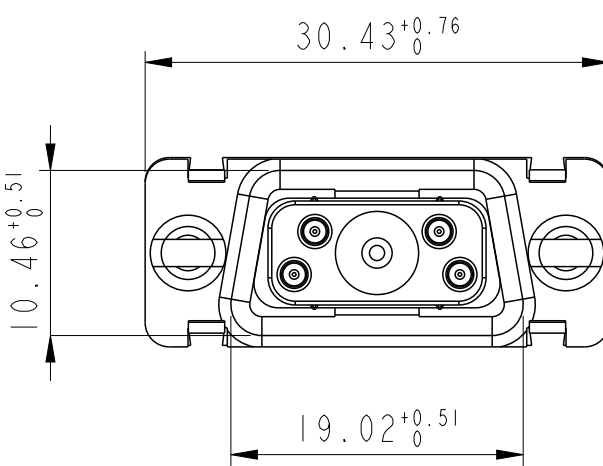
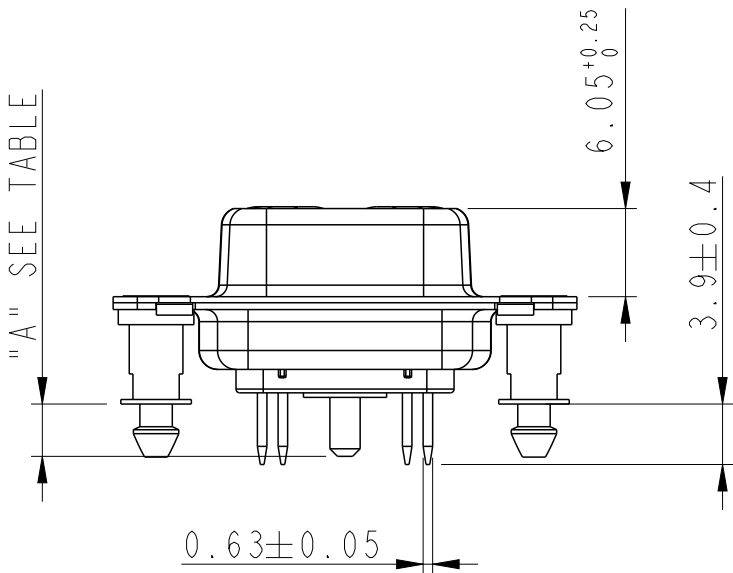
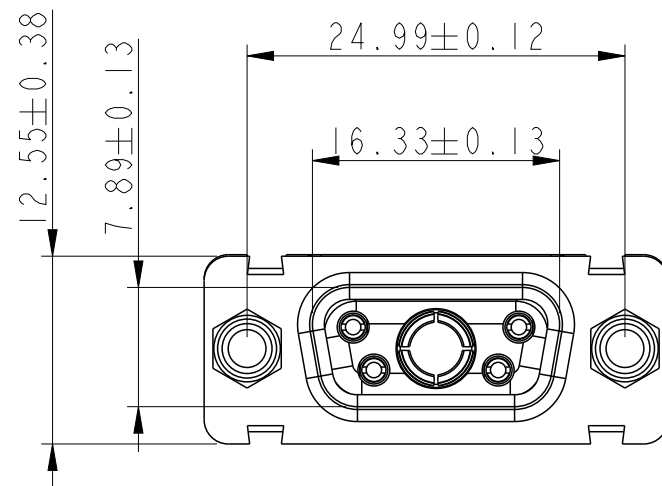
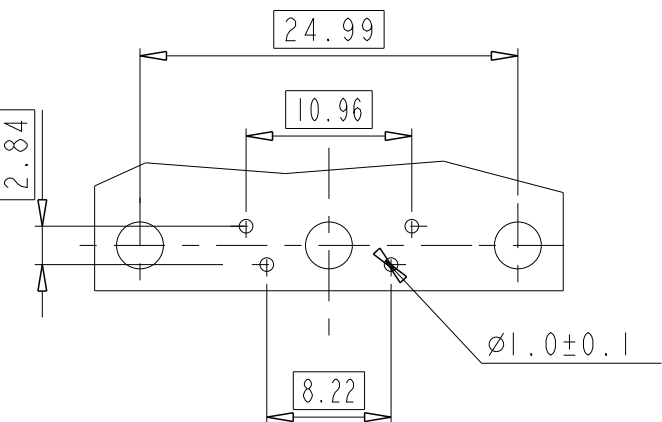
shell size	LAYOUTS
*	xWx
E	5W1
A	11W1
A	7W2
B	21W1
B	17W2
B	13W3
B	9W4
C	25W3
C	21WA4
C	27W2
D	47W1
D	24W7
D	36W4

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*LxWxS343G30LF	30	500	insert M3	harpoon PCB 1.60mm
D*OxWxS343G30LF	30	500	insert UNC 4.40	harpoon PCB 1.60mm
D*VxWxS343G30LF	30	500	female screw UNC 4.40	harpoon PCB 1.60mm
D*LxWxS343H30LF	30	500	insert M3	harpoon PCB 2.40mm
D*OxWxS343H30LF	30	500	insert UNC 4.40	harpoon PCB 2.40mm
D*VxWxS343H30LF	30	500	female screw UNC 4.40	harpoon PCB 2.40mm
D*LxWxS343G40LF	40	500	insert M3	harpoon PCB 1.60mm
D*OxWxS343G40LF	40	500	insert UNC 4.40	harpoon PCB 1.60mm
D*VxWxS343G40LF	40	500	female screw UNC 4.40	harpoon PCB 1.60mm
D*LxWxS343H40LF	40	500	insert M3	harpoon PCB 2.40mm
D*OxWxS343H40LF	40	500	insert UNC 4.40	harpoon PCB 2.40mm
D*VxWxS343H40LF	40	500	female screw UNC 4.40	harpoon PCB 2.40mm

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tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Gregar Mathew	2019/11/11		ecn no	ELX-132909-1		
ISO 406		chr	-	-		rel level	Released		
ISO 1101		appr	Varma Sudhir	2019/11/12		product family	D SUB	-	
surface		Amphenol FCI		title	SUB FEMALE DW		dwg no	C01-8639-2302c	
ISO 1302	linear	0.X	±0.30	MIXED POWER STRAIGHT SOLDER	cat. no.		Product - Customer Drw	sheet 2 of 7	rev
		0.XX	±0.10						K
	angular	0°	±2°						

5W1

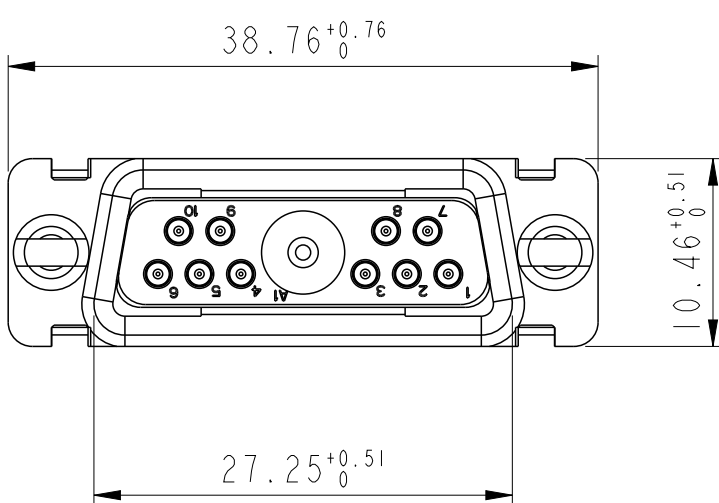
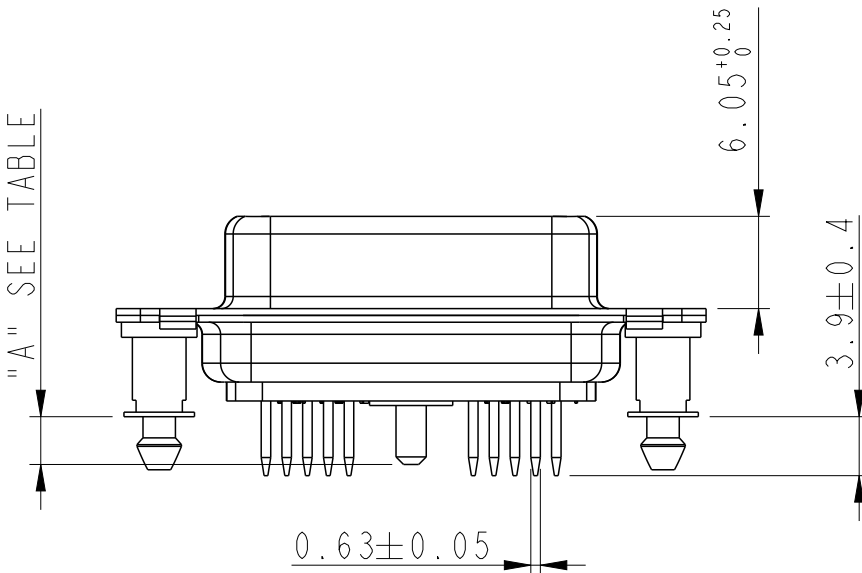
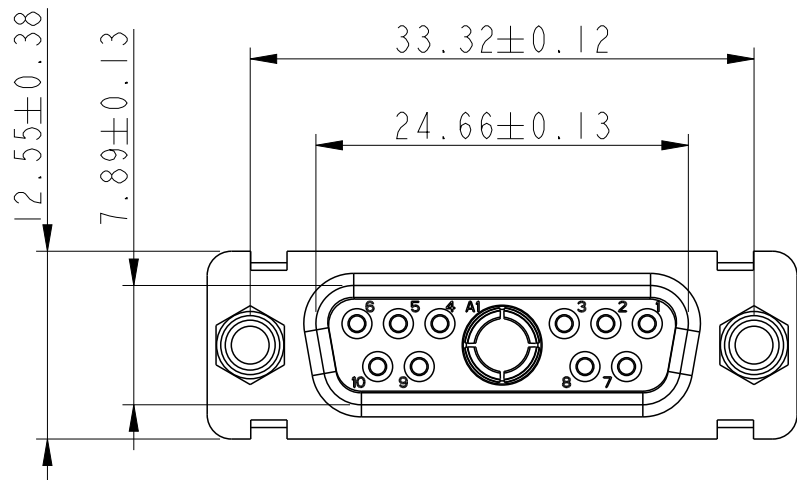
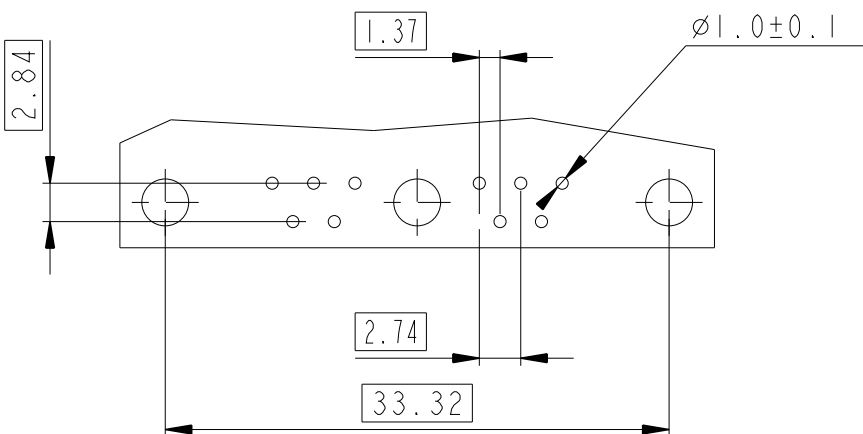
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



Floating signal contacts

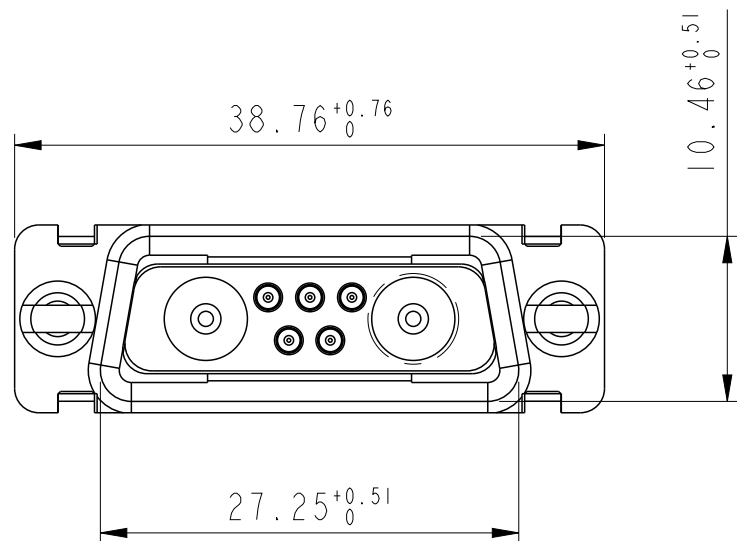
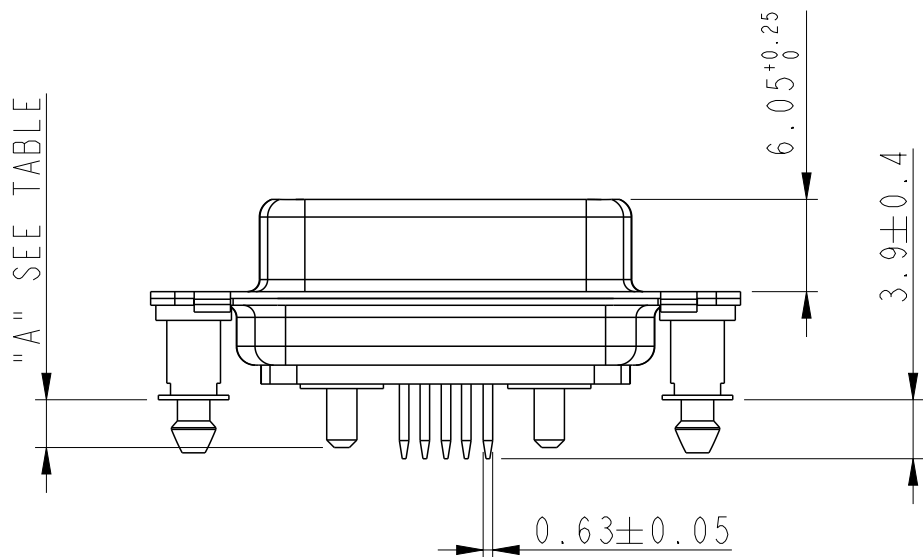
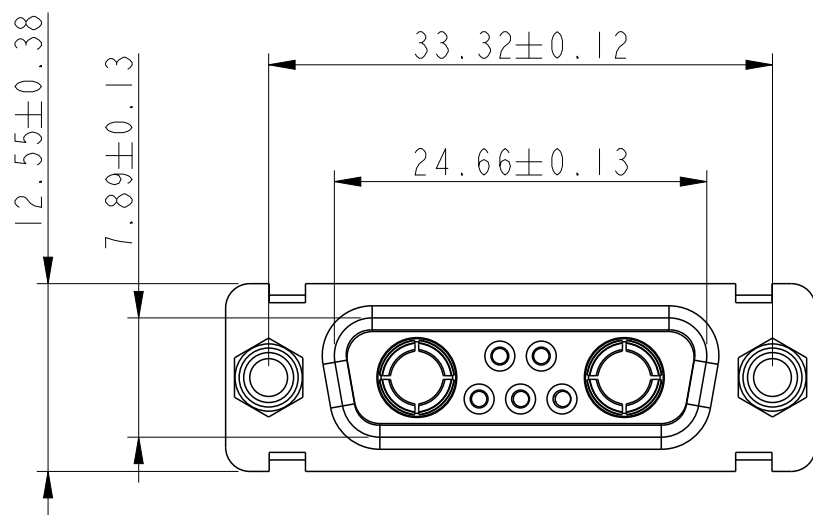
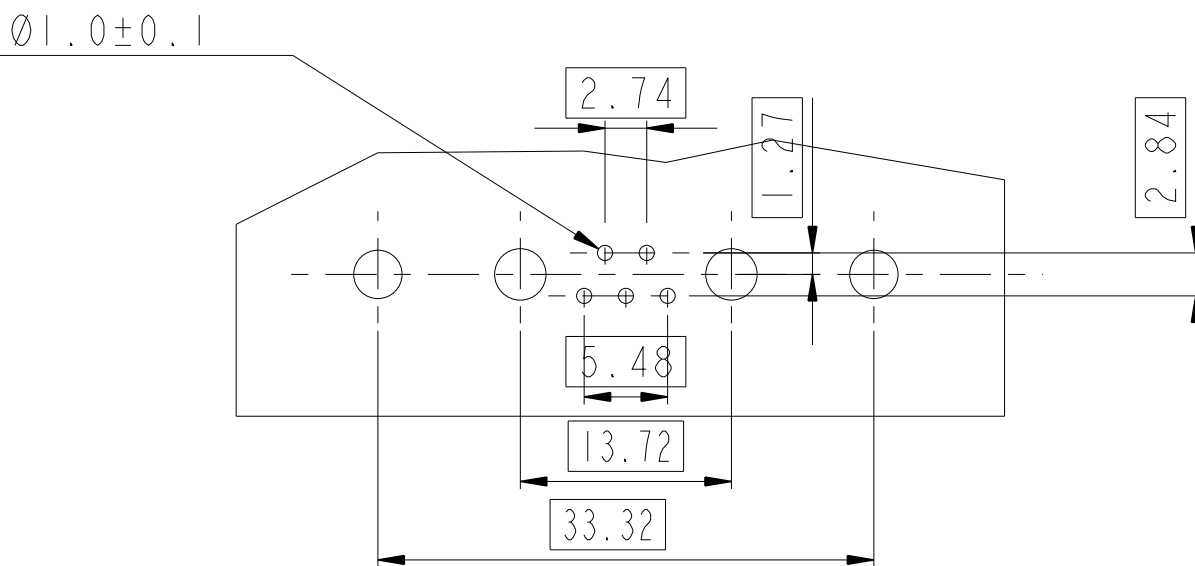
11W1

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

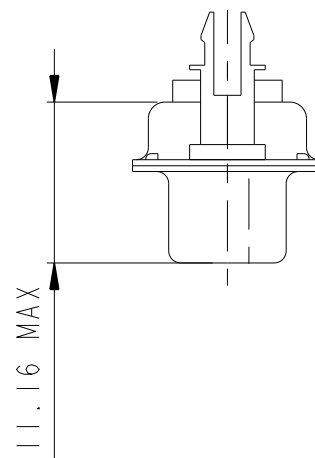


7W2

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



SIDE VIEW FOR
LAYOUTS: E A B C



COTE "A"

30A	3.6±0.35
40A	4.0±0.35

spec ref				dr 1. Product Eng		2015/06/12		projection		MM		size A2		scale 2:1	
tolerance std				eng Gregar Mathew		2019/11/11						ecn no ELX-1-32909-1		rel level Released	
ISO 406 ISO 1101				TOLERANCES UNLESS OTHERWISE SPECIFIED		chr -						appr Varma Sudhir			
surface - ISO 1302				linear		0.X ±0.30 0.XX ±0.10 0.XXX ±0.05		Amphenol FCI		title SUB FEMALE DW MIXED POWER STRAIGHT SOLDER		dwg no C01-8639-2302c		rev K	
angular 0° ±2°				cat. no.		-		Product - Customer Drw						sheet 3 of 7	

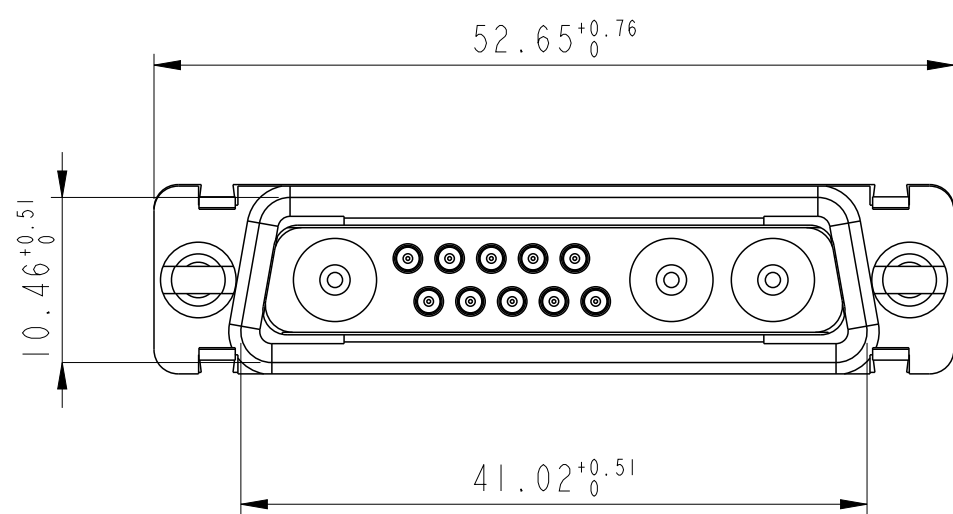
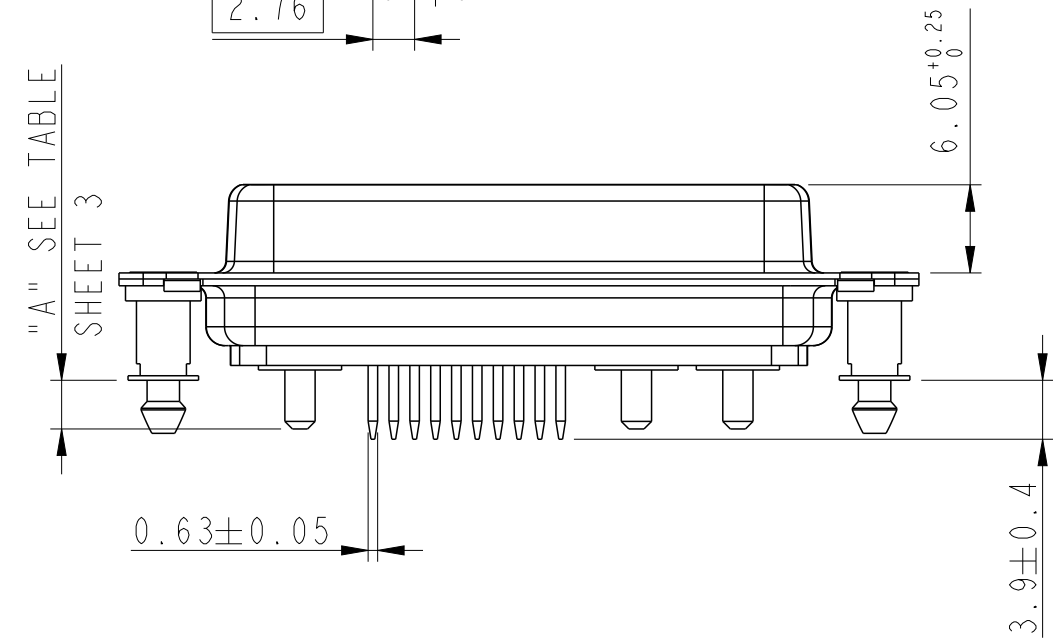
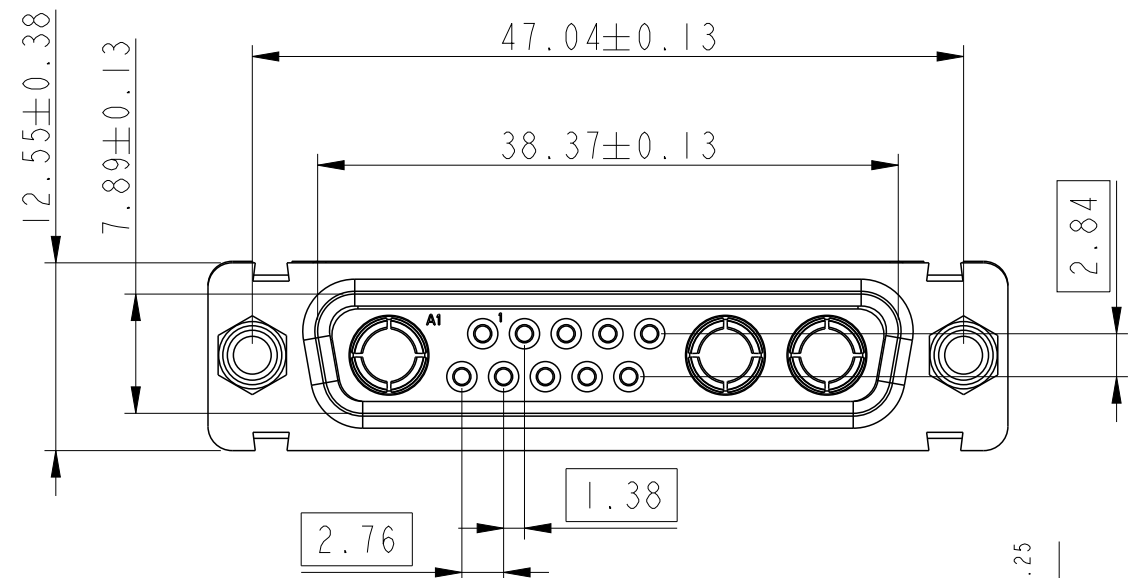
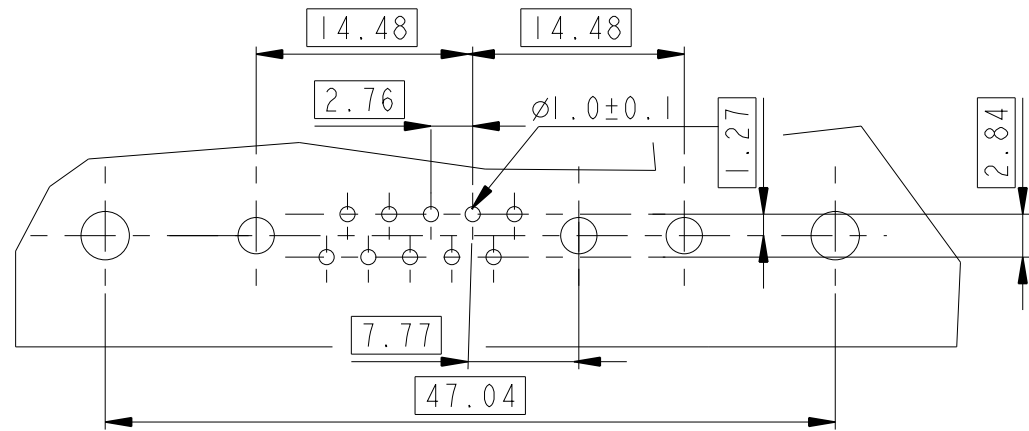
PDS: Rev :K

STATUS:Released

Printed: Nov 12, 2019

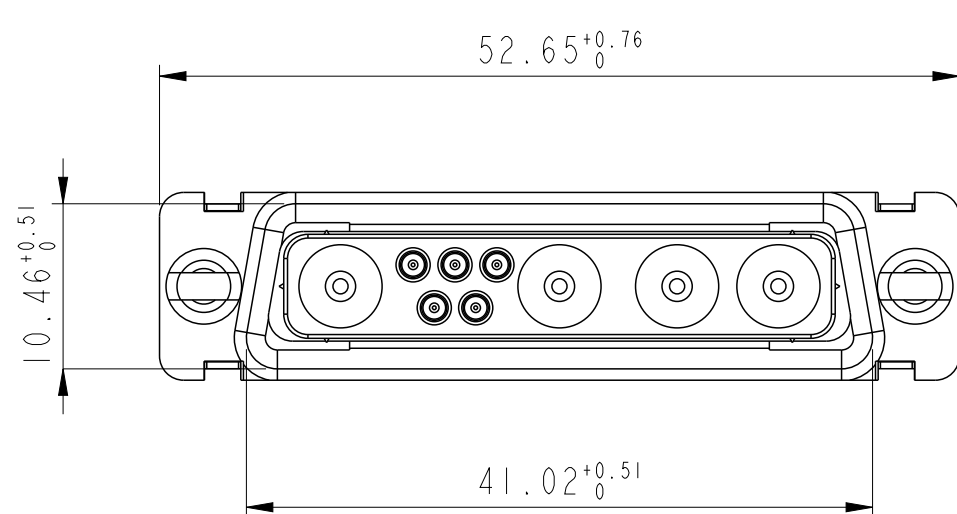
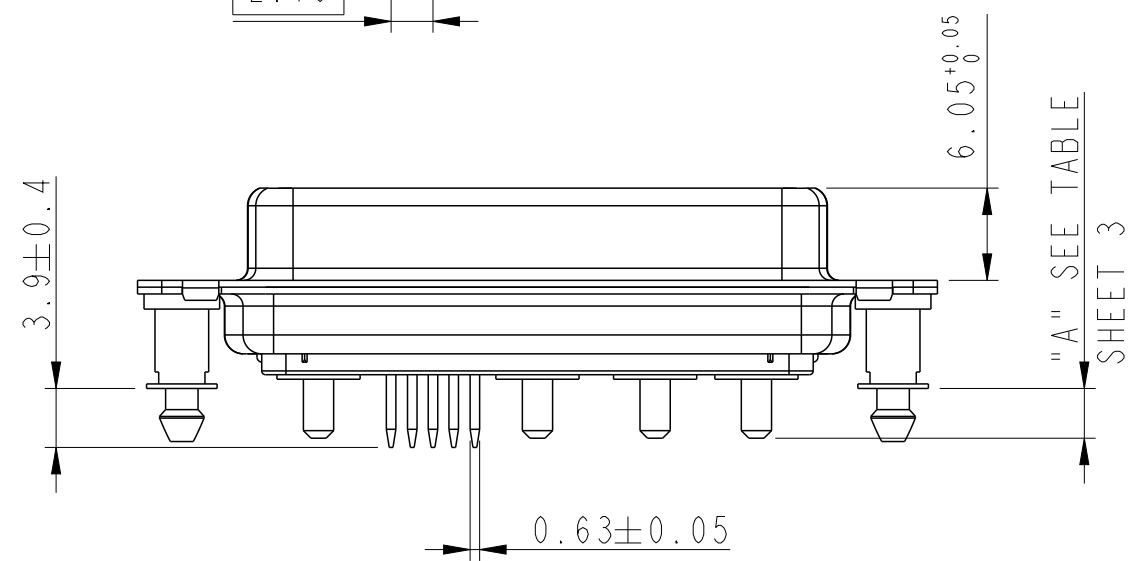
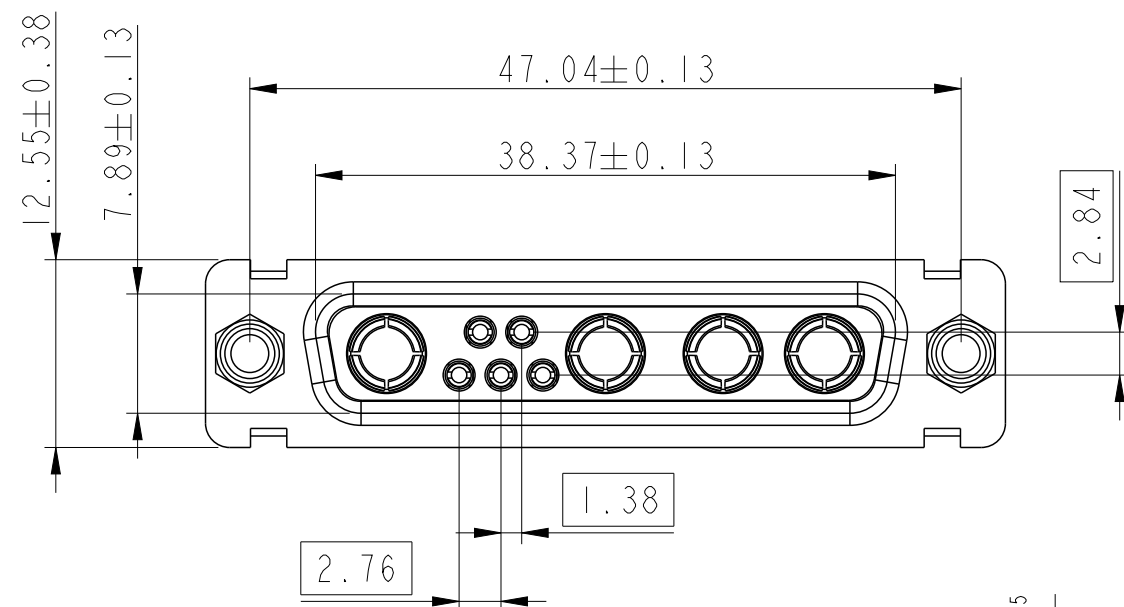
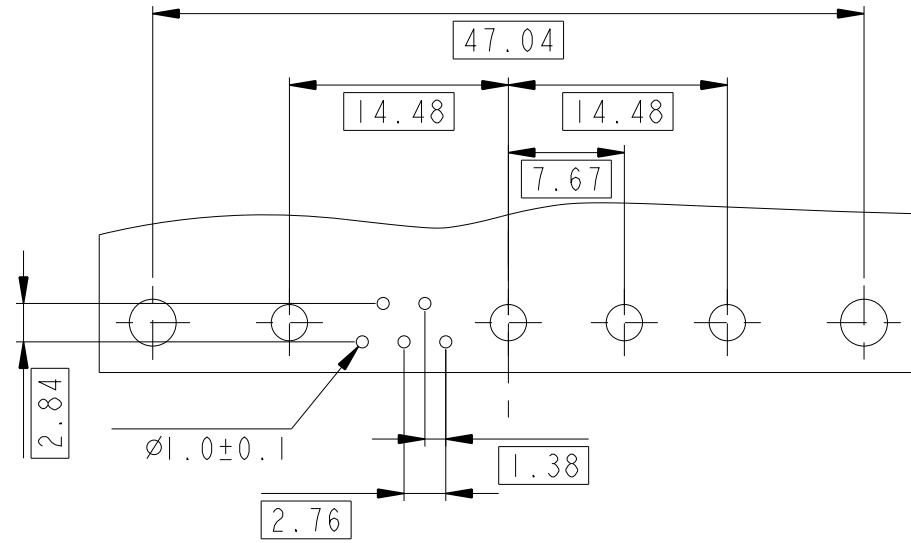
13W3

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



9W4

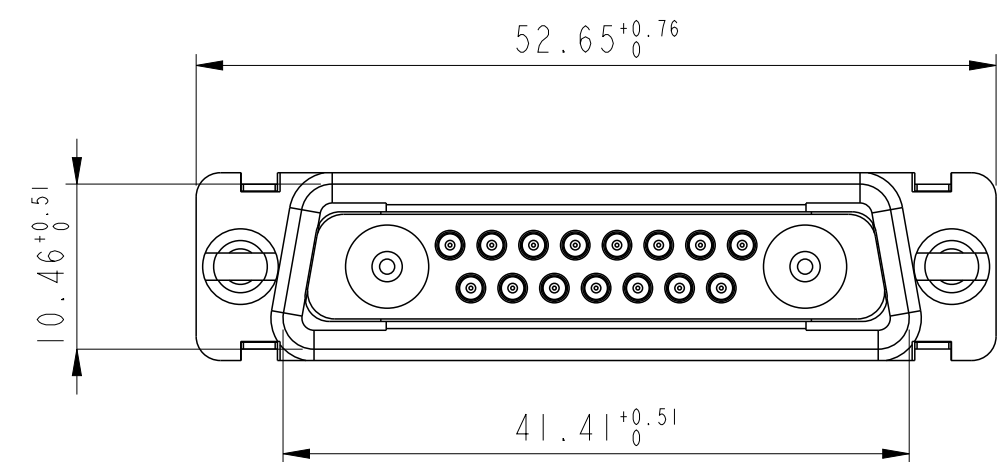
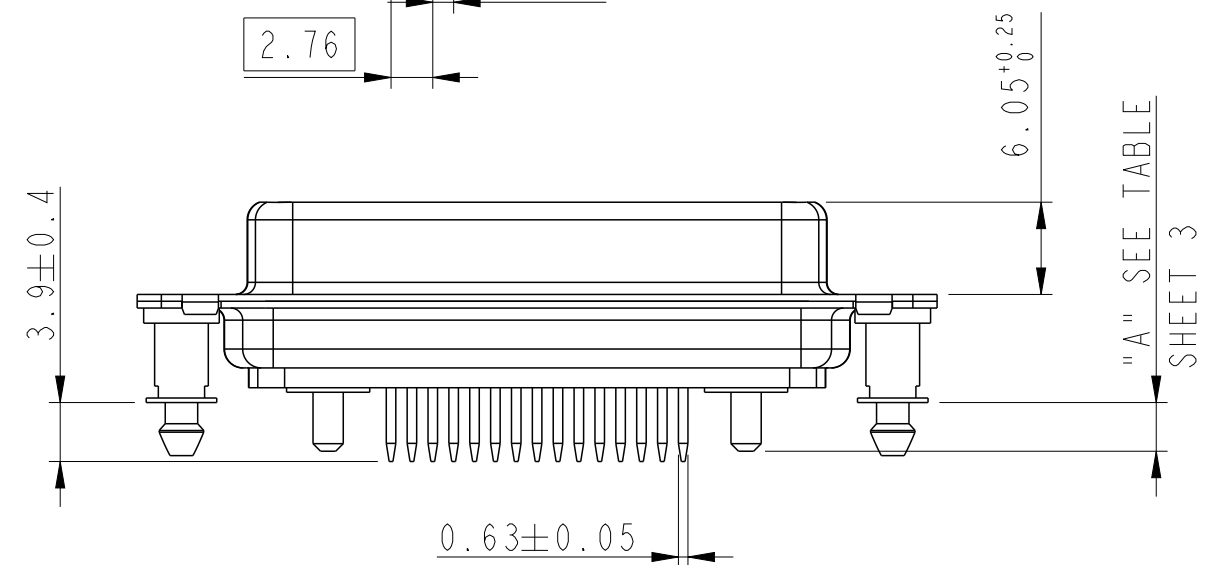
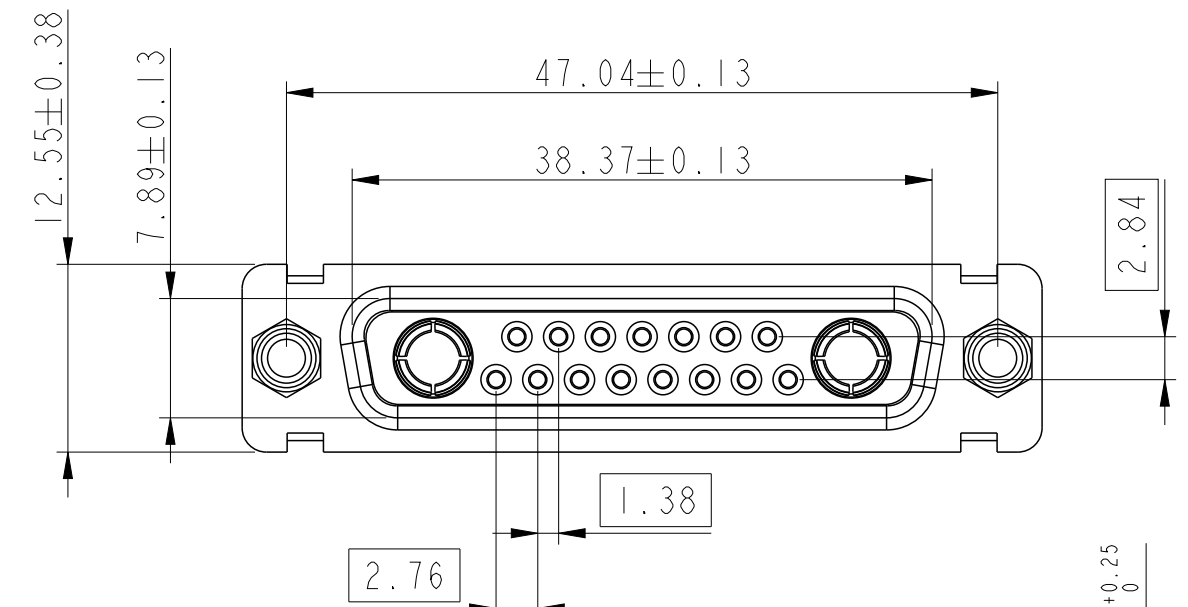
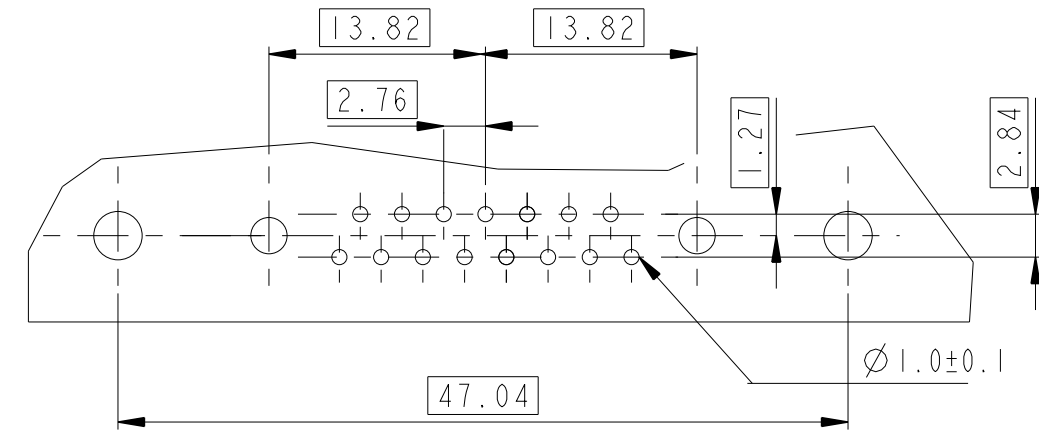
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I

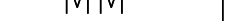


Floating signal contacts

17W2

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

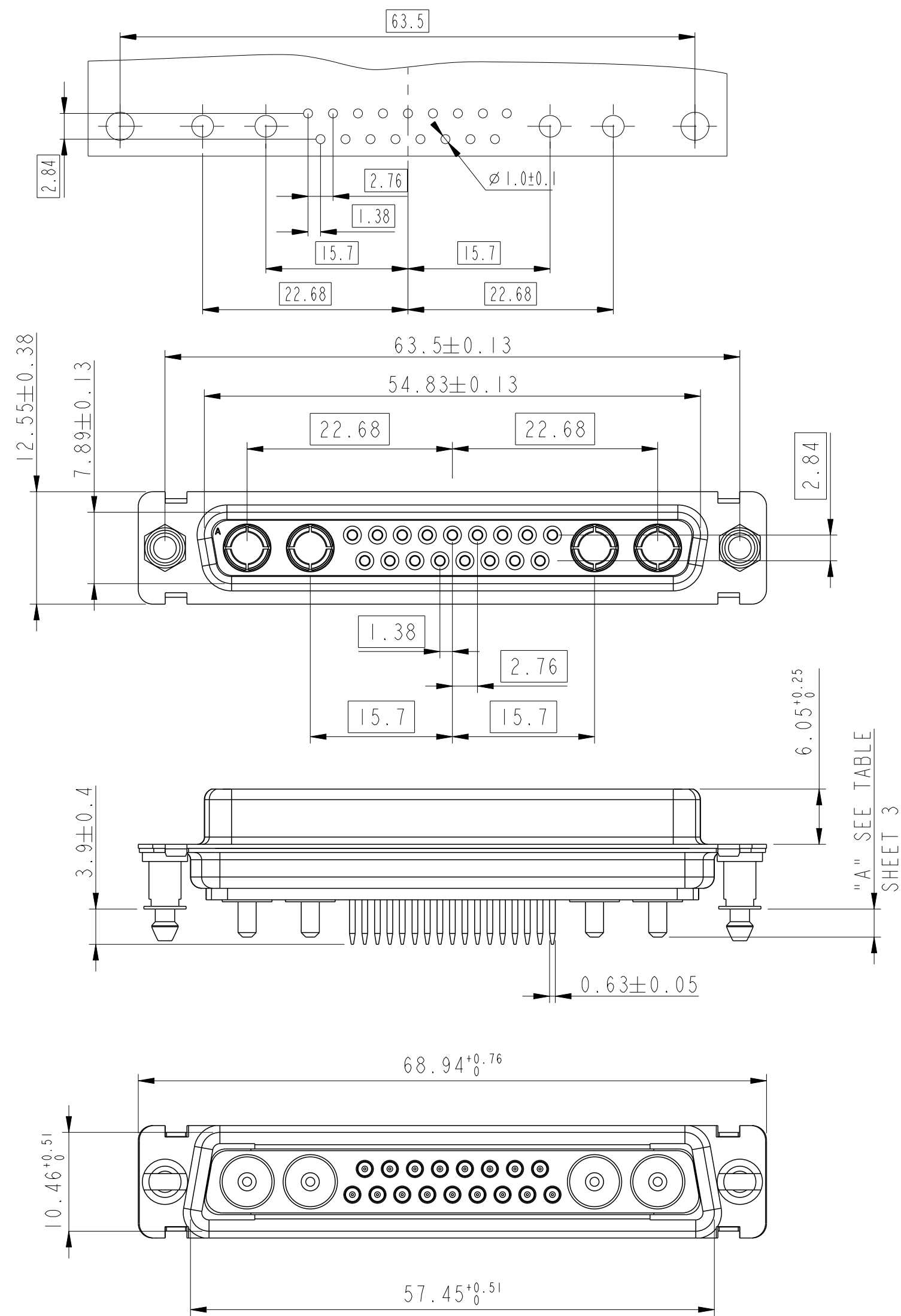
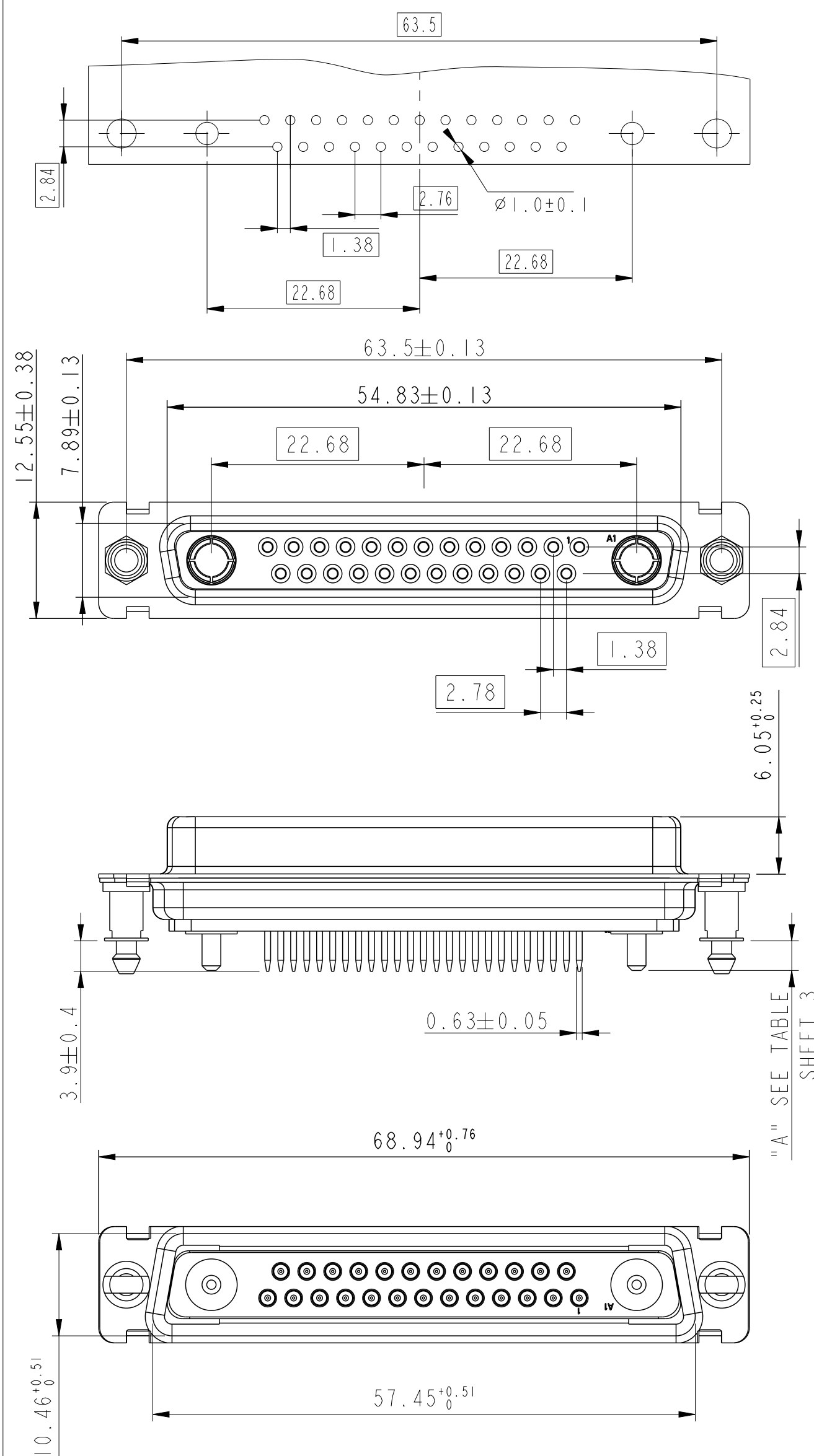
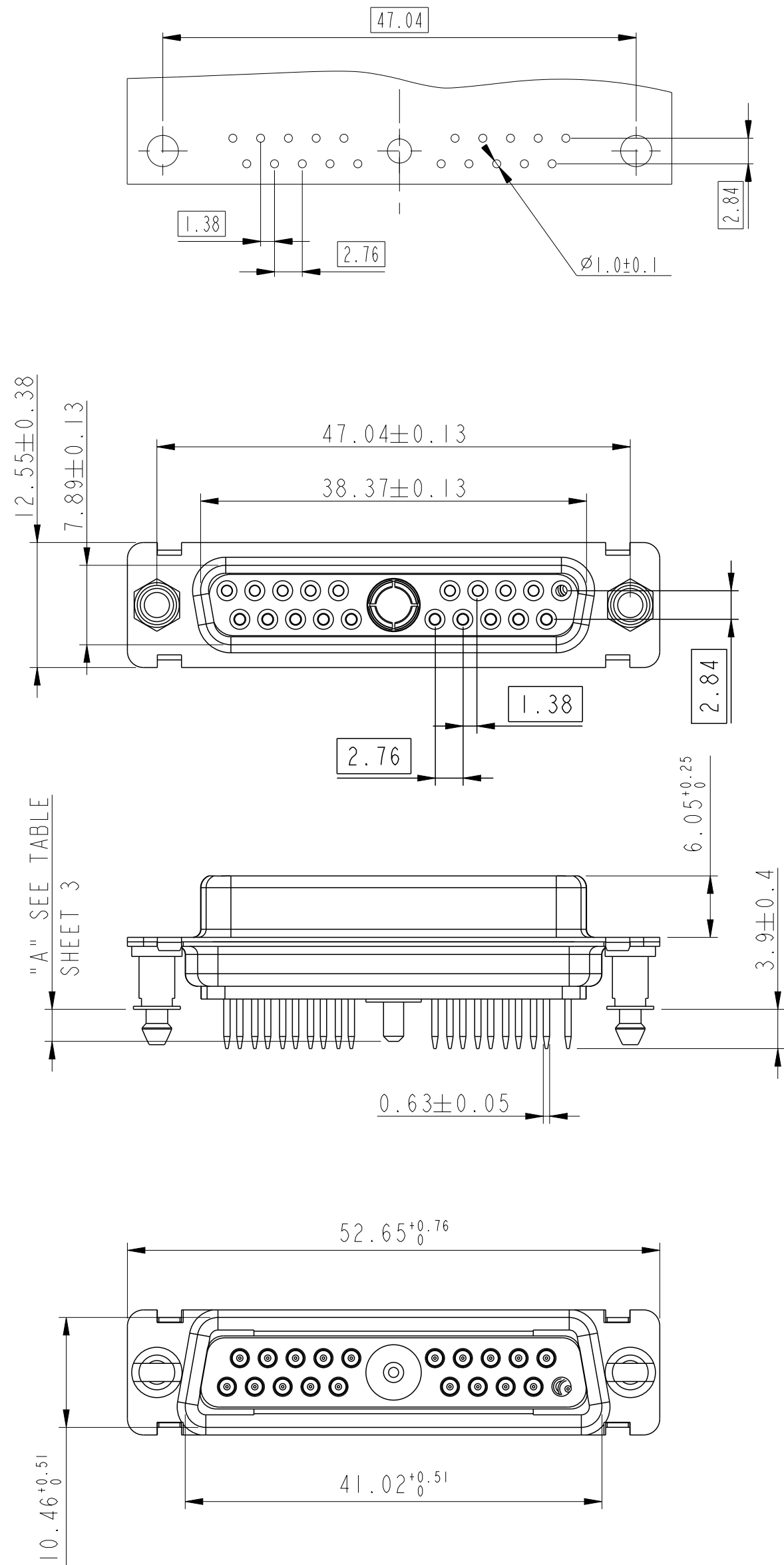


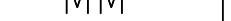
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ISO 406		chr		-		-															
ISO 1101				appr		Varma Sudhir		2019/11/12		product family		D SUB									
surface		linear		0.X		±0.30		Amphenol FCI		title		SUB FEMALE DW		dwg no		C01-8639-2302c		rev		K	
				0.XX		±0.10															
				0.XXX		±0.05															
ISO 1302		angular		0°		±2°				cat. no.		-		Product - Customer Drw				sheet 4 of 7			

LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table 1 sheet 1

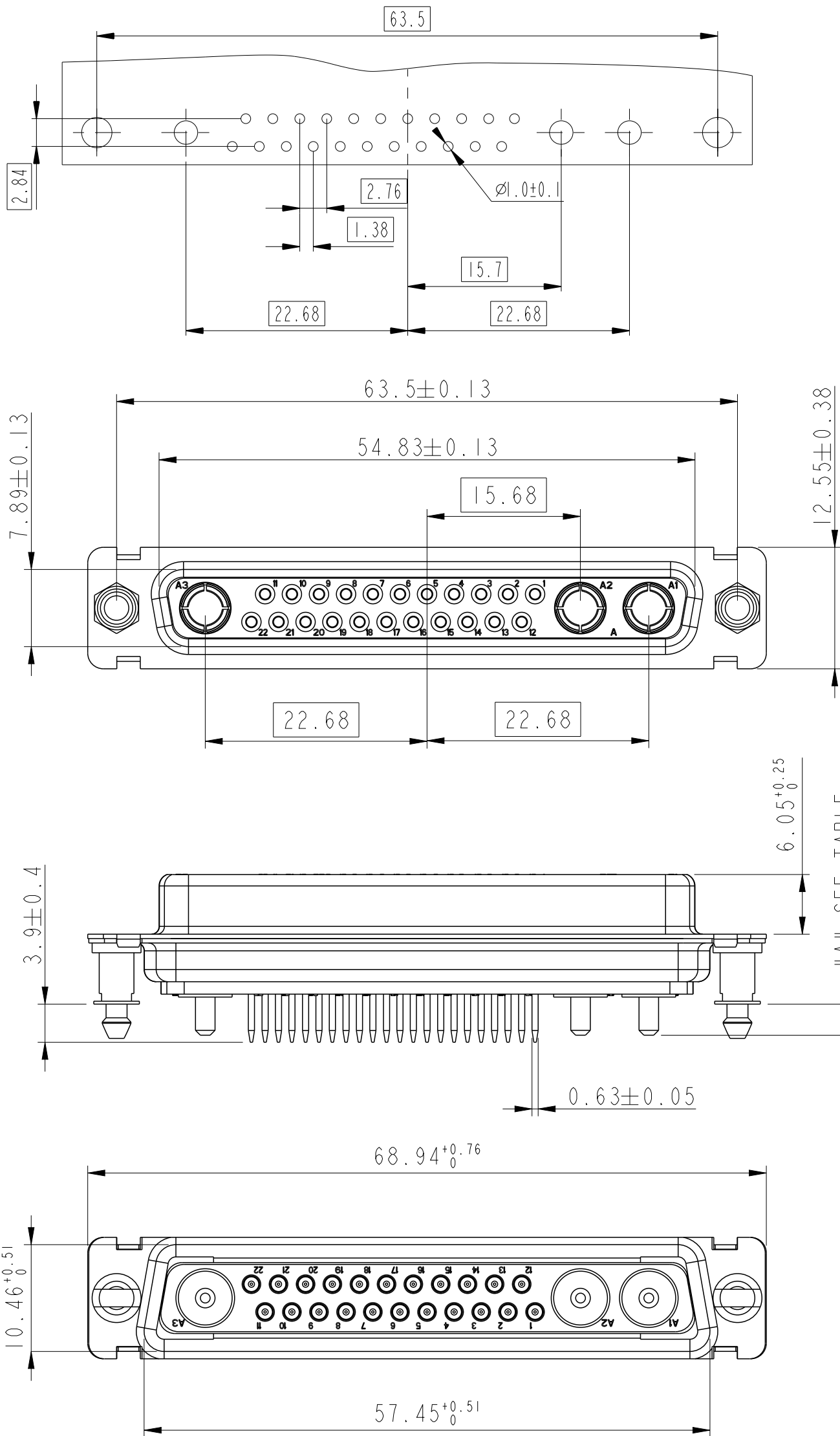
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table 1 sheet 1

LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table 1 sheet 1

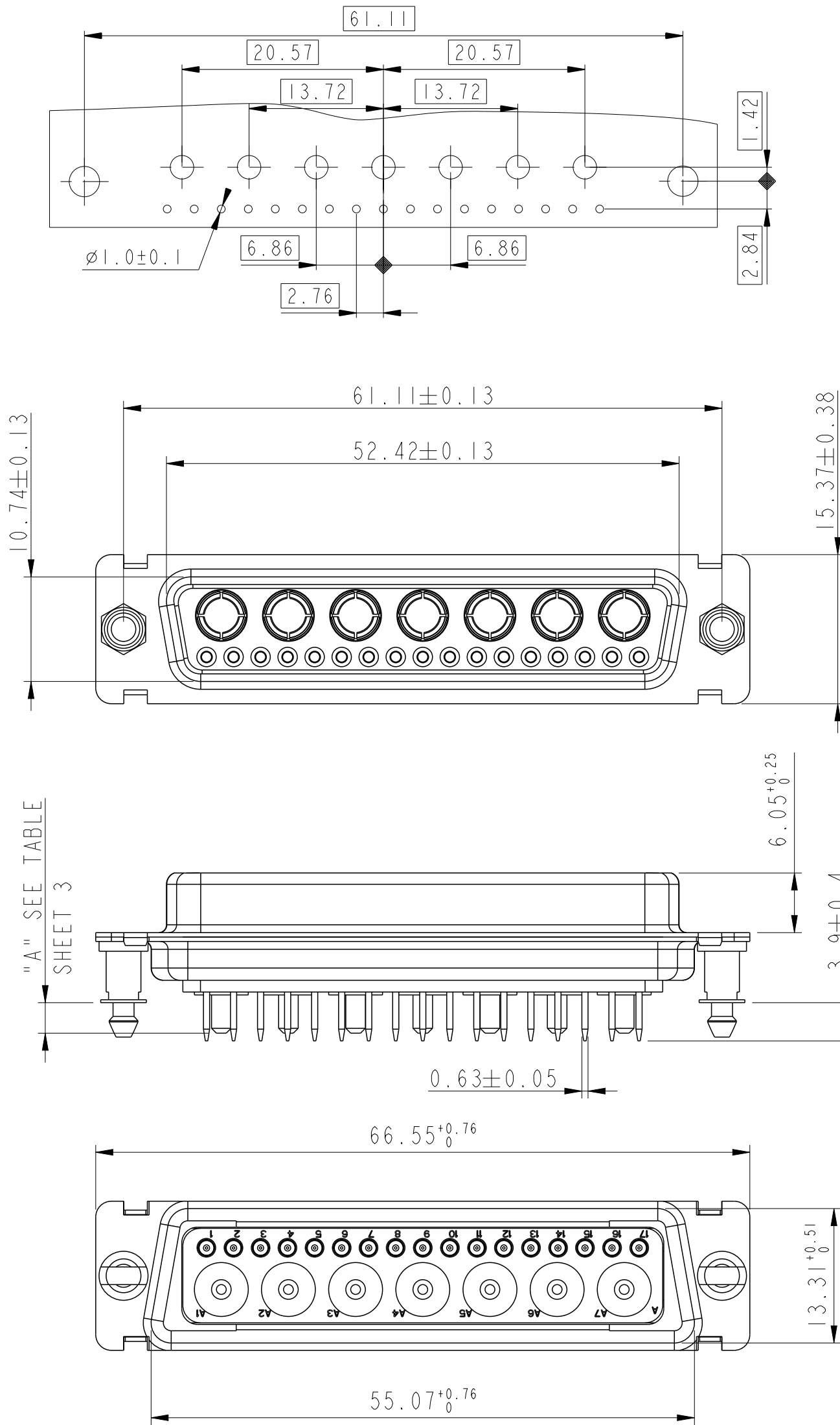


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ISO 406				chr		-		-						product family		D SUB				-	
ISO 1101				appr		Varma Sudhir		2019/11/12													
surface		linear		0.X		±0.30		Amphenol FCI		title		SUB FEMALE DW		dwg no		C01-8639-2302c		rev		K	
		0.XX		±0.10																	
		0.XXX		±0.05																	
ISO 1302		angular		0°		±2°				cat. no.		-		Product - Customer Drw		sheet 5 of 7					

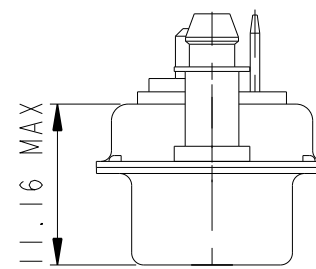
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I

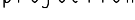


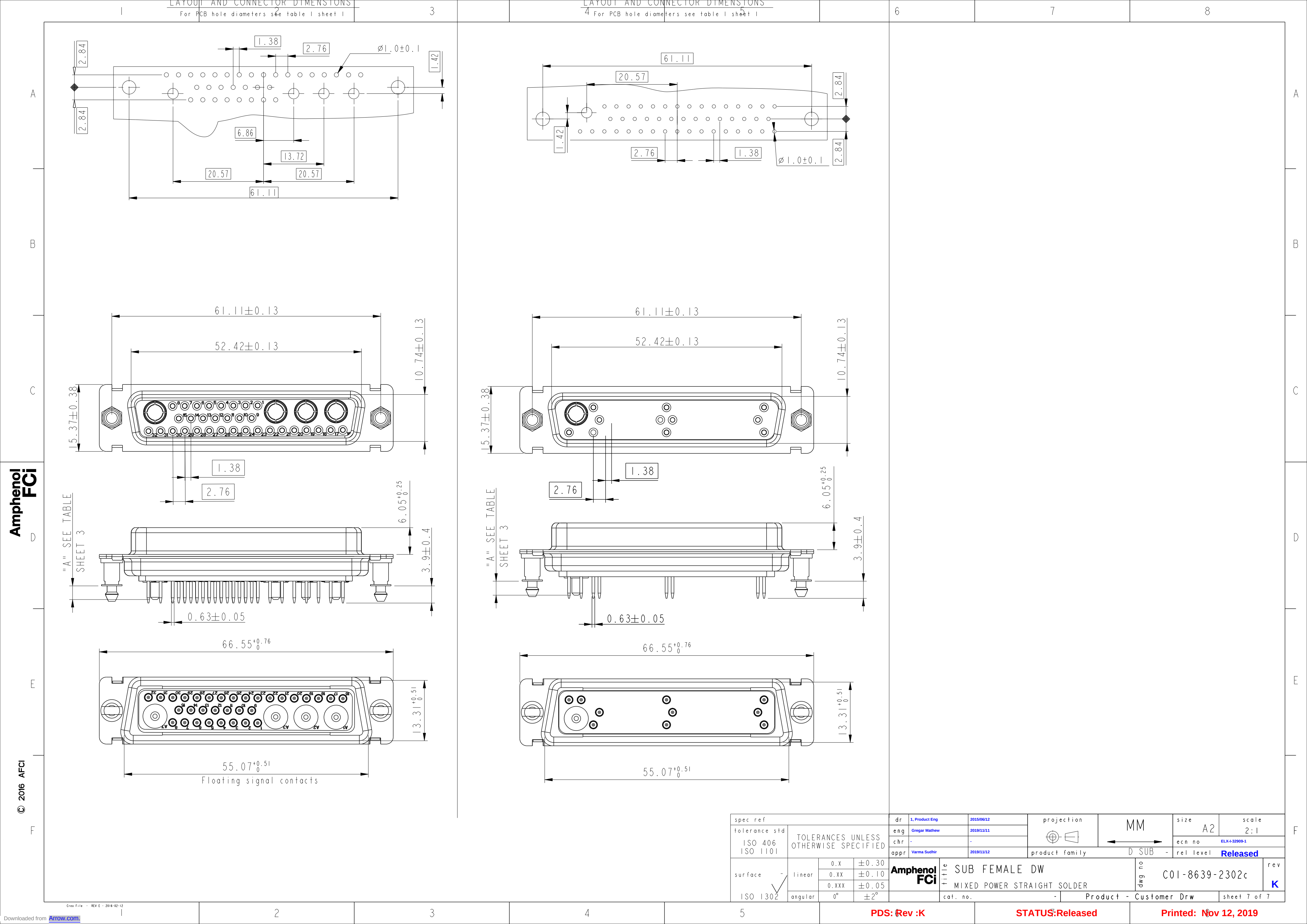
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



SIDE VIEW FOR
LAYOUTS: D



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tolerance std				engGregar Mathew		2019/11/11						ecn no		ELX-132909-1	
ISO 406				chr-		-						rel level		Released	
ISO 1101				apprVarma Sudhir		2019/11/12						product family		D SUB	
TOLERANCES UNLESS OTHERWISE SPECIFIED															
surface		linear	0.X	±0.30	Amphenol FCi		titleSUB FEMALE DW		dwg noC01-8639-2302c		revK				
			0.XX	±0.10											
			0.XXX	±0.05											
ISO 1302		angular	0°	±2°			cat. no.		-		Product - Customer Drw		sheet 6 of 7		



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

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

61.11±0.13
52.42±0.13

61.11±0.13
52.42±0.13

66.55^{+0.76}₀

66.55^{+0.76}₀

55.07^{+0.51}₀

55.07^{+0.51}₀

Floating signal contacts

spec ref				dr		1, Product Eng		2015/06/12		projection		MM		size		A2		scale		2:1	
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ISO 406				chr		-		-						product family		D SUB		rel level		Released	
ISO 1101				appr		Varma Sudhir		2019/11/12													
surface		linear		0.X		±0.30		Amphenol FCI		title		SUB FEMALE DW		dwg no		C01-8639-2302c		rev		K	
ISO 1302		0.XX		±0.10		MIXED POWER STRAIGHT SOLDER															
		0.XXX		±0.05																	
angular		0°		±2°				cat. no.		-		Product - Customer Drw				sheet 7 of 7					