

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 507)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOPLASTIC ,UL94V0

-CONTACT MATERIAL: BRASS

-ACCESSORIES: BRASS

-SHELLS: STEEL

ELECTRICAL CHARACTERISTICS

-NOMINAL CURRENT: 40A

-CONTACT RESISTANCE: <= 7.3 mOhms

-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 minimum

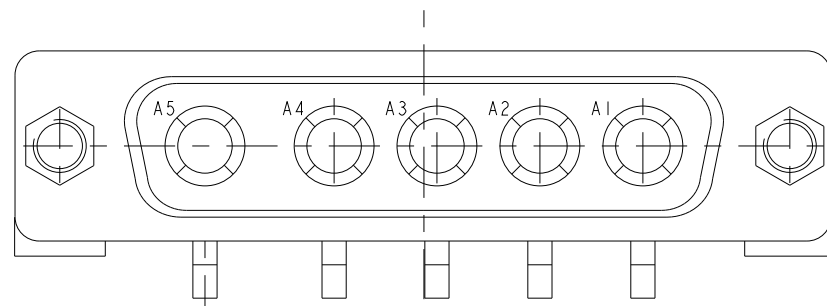
- Female screw : 0.5 N.m minimum

PRESS FIT PERFORMANCES

PRESS FIT CONTACTS	
INSERTION FORCE	<= 200 N Average insertion 160N
EXTRACTION FORCE	>= 30 N

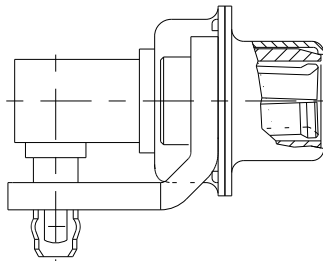
NOTE RoHS INFORMATION

- The "LF" products meet european union Directives and other country regulations as described in GS-47-0004.
- Termination plating spec:
 - Ni 1.27µm+Sn 0.5 to 1.5µ(pure bright)
- Active area plating spec:
 - 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



DETAIL OF PRESS FIT

scale:3



5W5 FOR EXAMPLE

Series

Shell size: **E 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 sheet 3)

Contacts

S :Socket

Termination type

81C Right angle/Europe standard

Plating

5 200 matings/unmatings

6 500 matings/unmatings

PCB accessories definition(see sheet 2)

M Metal brackets

A Without accessory

Power contacts

40 :Fitted with power contacts 40 Amp.

DBL5W5S81C6M40LF

See note RoHS

TABLE 1:PCB HOLE DIAMETERS

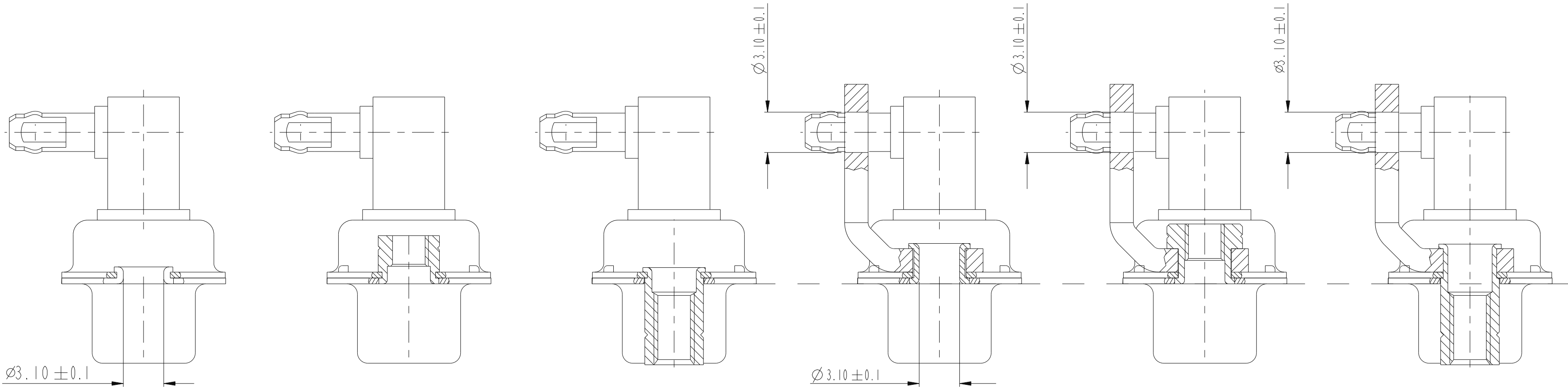
		SnPb holes for CONTACTS	Sn holes for CONTACTS	holes ACCESSORIES
P.C.B HOLE DEFINITION (NOTE-1 AND 2)	DRILL DIAMETER	ø3.22 REF(NOTE 3)	ø3.22 REF(NOTE 3)	ø3.10±0.10
	DRILLED HOLE	ø3.19-3.25	ø3.19-3.25	
	COPPER PLATING	25µ MINI (RECOMMENDED 50µ MAXI)	25µ MINI (RECOMMENDED 50µ MAXI)	
	TIN-LEAD PLATING	15µ MAXI (RECOMMENDED 5µ MINI)		
	TIN PLATING		0.8 to1,2µ	
	FINISH HOLE (AFTER REFLOW)	ø 3.02-3.20	ø3.08-3.20	

NOTE-1:THESE DIMENSIONS MUST BE RESPECT TO SECURE PRESS-FIT PIN PERFORMANCES.

NOTE-2: ACCORDING TO IEC-352-5 SPEC.

NOTE-3: MAJOR REQUIREMENT FOR PRESS FIT PIN PERFORMANCE

spec ref			dr		1, Product Eng	2015/06/12	projection 	mm 	size	A2	scale	1:1	
tolerance std			eng		Gregar Mathew				2020/12/04	ecn no		ELX-1-33502-1	
			chr		-				-	rel level		Released	
			appr		Kuriakose, San				2020/12/06	product family		D SUB -	
surface ✓	linear	0.X	±0.3	Amphenol FCI	title	SUB FEMALE DW EUROPE foot print				dwg no	C01-8639-2316C		rev D
		0.XX	±0.1			full power right angle press fit							
		0.XXX	±0.05										
						angular	0°	±2°			cat. no.	-	



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

spec ref		dr		1, Product Eng		2015/06/12		projection		mm		size		A2		scale		3:1							
tolerance std		eng		Gregar Mathew		2020/12/04						ecn no		ELX-133502-1											
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		-		-						product family		D SUB -		rel level		Released							
		appr		Kuriakose, San		2020/12/06																			
surface		linear		0.X		±0.3		Amphenol FCI		title		SUB FEMALE DW EUROPE foot print		dwg no		C01-8639-2316C		rev		D					
																						0.XX		±0.1	
																						0.XXX		±0.05	
																						angular		0°	
				cat. no.		-		Product - Customer Drw				sheet 2 of 5													

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS8IC5A40LF	40	200	without	without
D*LxWxS8IC5A40LF	40	200	insert M3	without
D*OxWxS8IC5A40LF	40	200	insert UNC 4.40	without
D*VxWxS8IC5A40LF	40	200	female screw UNC 4.40	without
D*xWxS8IC5M40LF	40	200	without	metal bracket
D*LxWxS8IC5M40LF	40	200	insert M3	metal bracket
D*OxWxS8IC5M40LF	40	200	insert UNC 4.40	metal bracket
D*VxWxS8IC5M40LF	40	200	female screw UNC 4.40	metal bracket

shell size
*

E

A

A

B

C

LAYOUTS
xWx

2V2

3V3

3W3

5W5

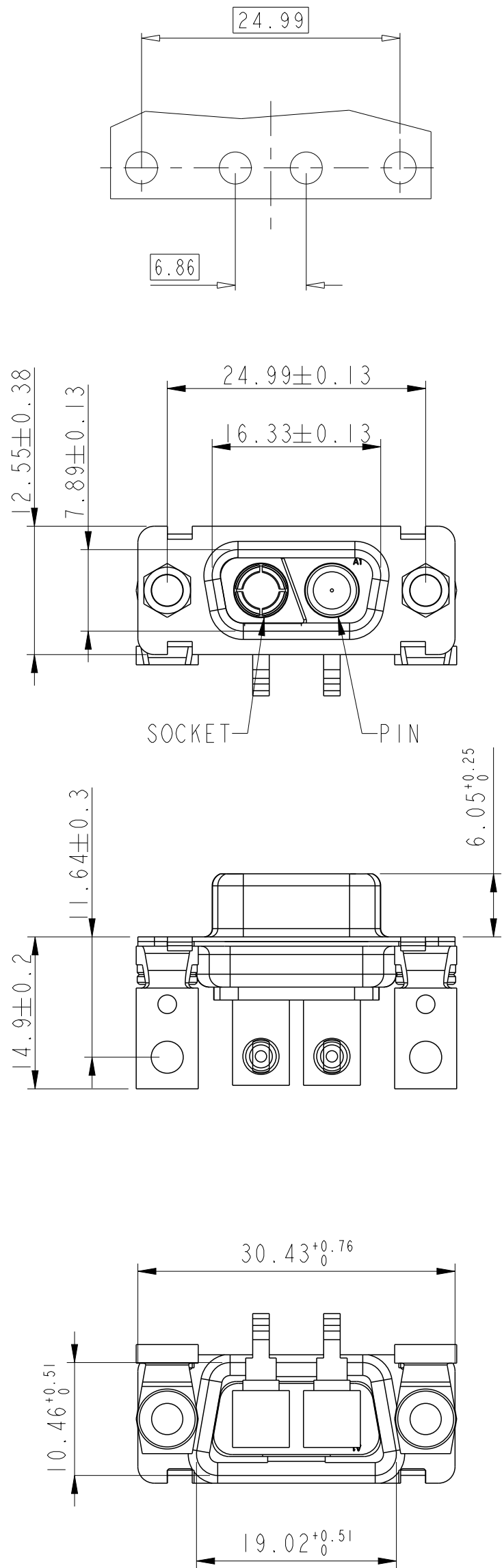
8W8

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS8IC6A40LF	40	500	without	without
D*LxWxS8IC6A40LF	40	500	insert M3	without
D*OxWxS8IC6A40LF	40	500	insert UNC 4.40	without
D*VxWxS8IC6A40LF	40	500	female screw UNC 4.40	without
D*xWxS8IC6M40LF	40	500	without	metal bracket
D*LxWxS8IC6M40LF	40	500	insert M3	metal bracket
D*OxWxS8IC6M40LF	40	500	insert UNC 4.40	metal bracket
D*VxWxS8IC6M40LF	40	500	female screw UNC 4.40	metal bracket

spec ref		dr		1, Product Eng		2015/06/12		projection		mm		size		A2		scale		3:1	
tolerance std		eng		Gregar Mathew		2020/12/04						ecn no		ELX-133502-1		rel level		Released	
		chr		-		-													
		appr		Kuriakose, San		2020/12/06		product family		D SUB -		rel level		Released					
surface		linear		0.X		±0.3				SUB FEMALE DW EUROPE foot print		C01-8639-2316C		rev		D			
		0.XX		±0.1															
		0.XXX		±0.05															
		angular		0°		±2°		cat. no.		-		Product - Customer Drw		sheet 3 of 5					

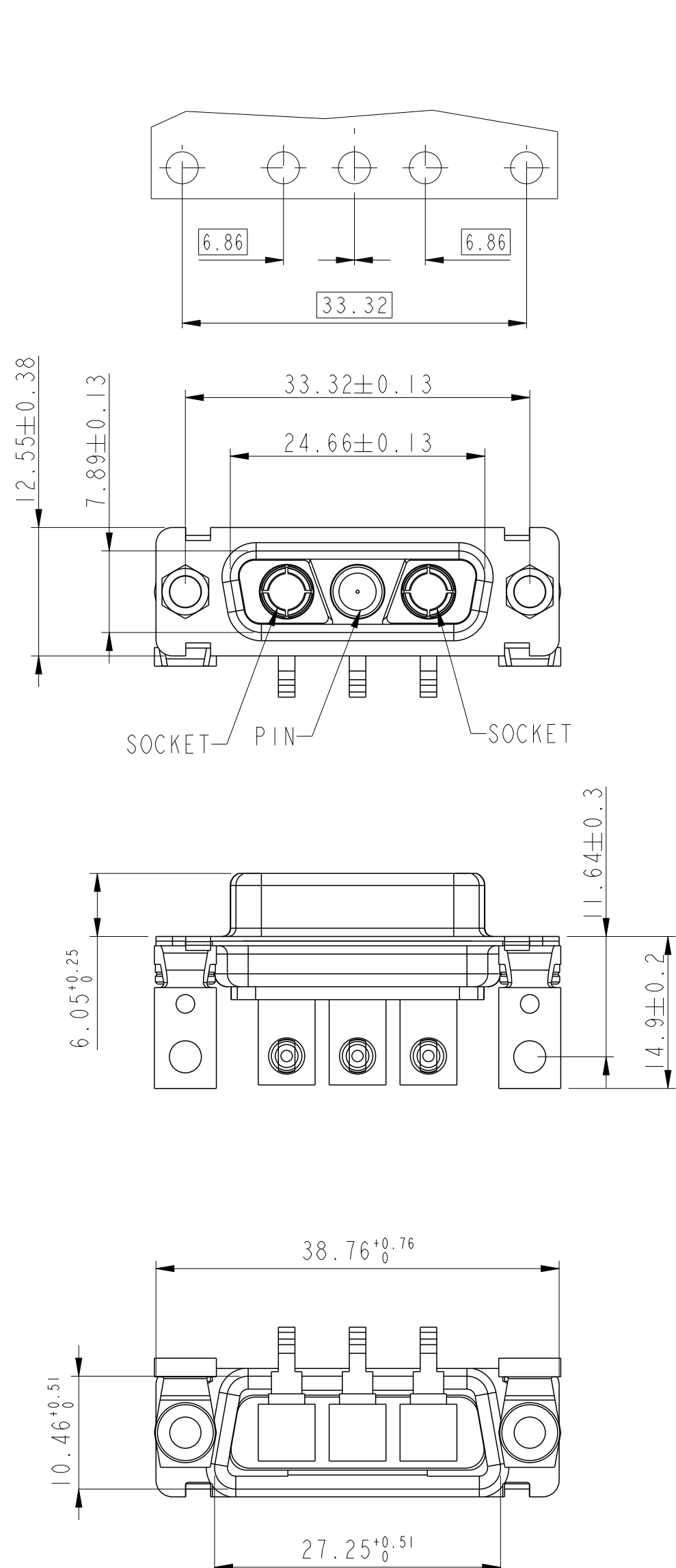
2V2

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

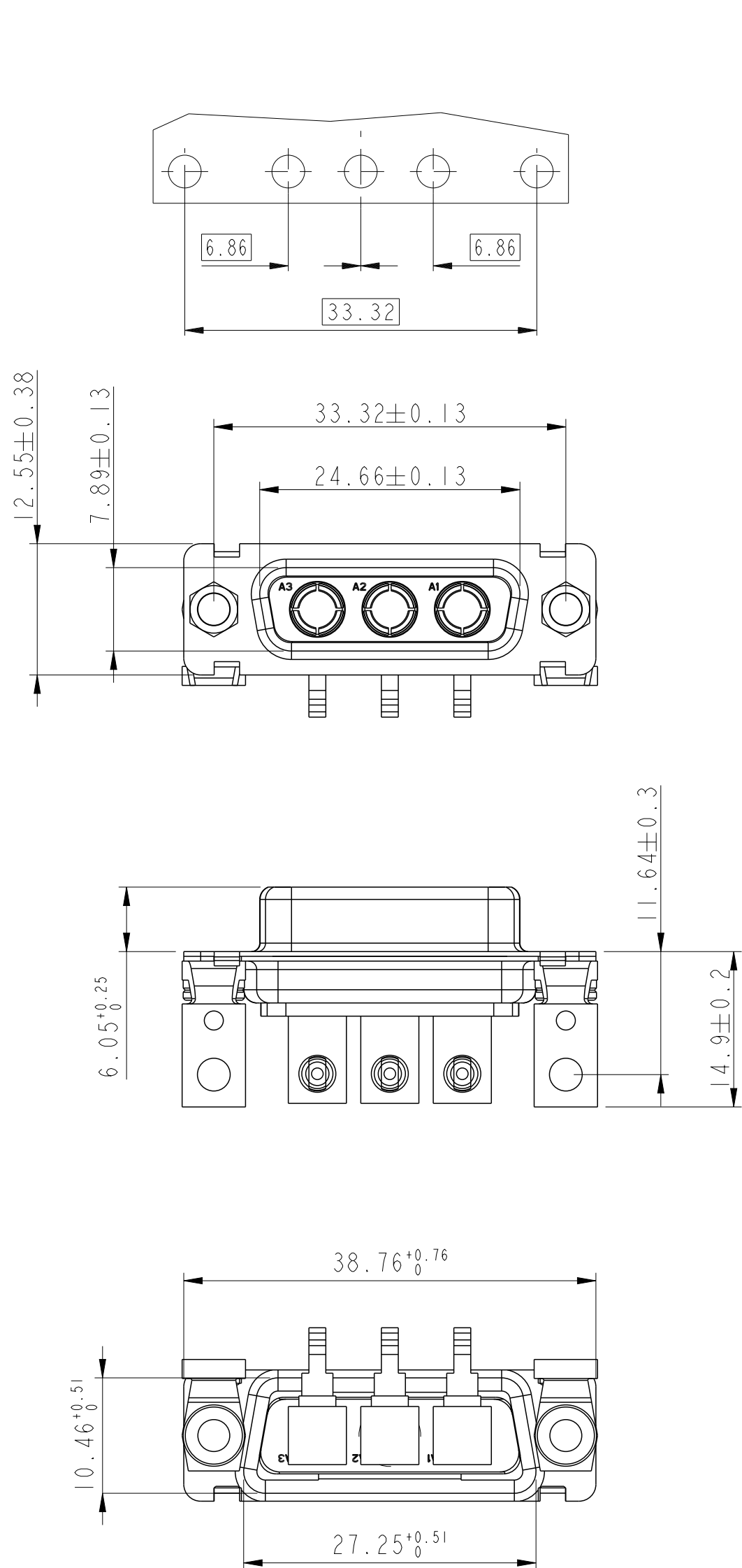


3V3

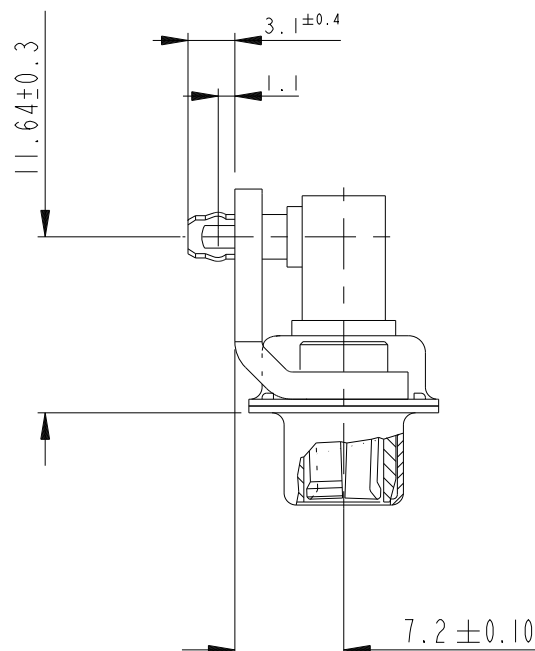
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



3W3



SIDE VIEW FOR ALL LAYOUTS



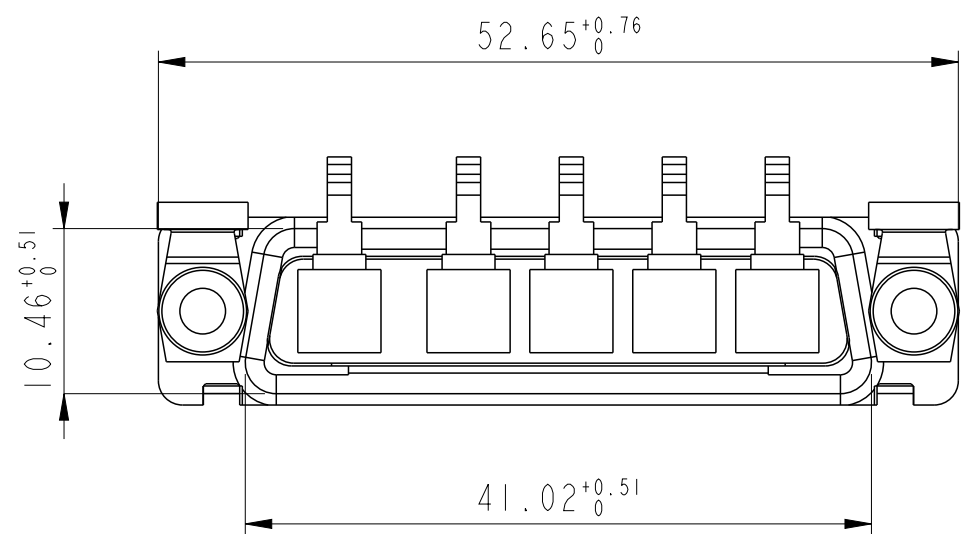
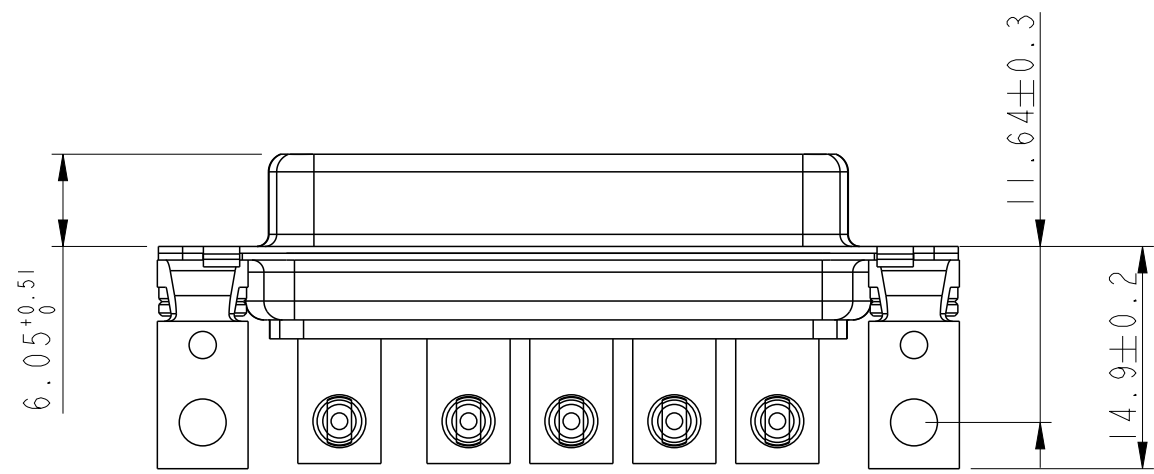
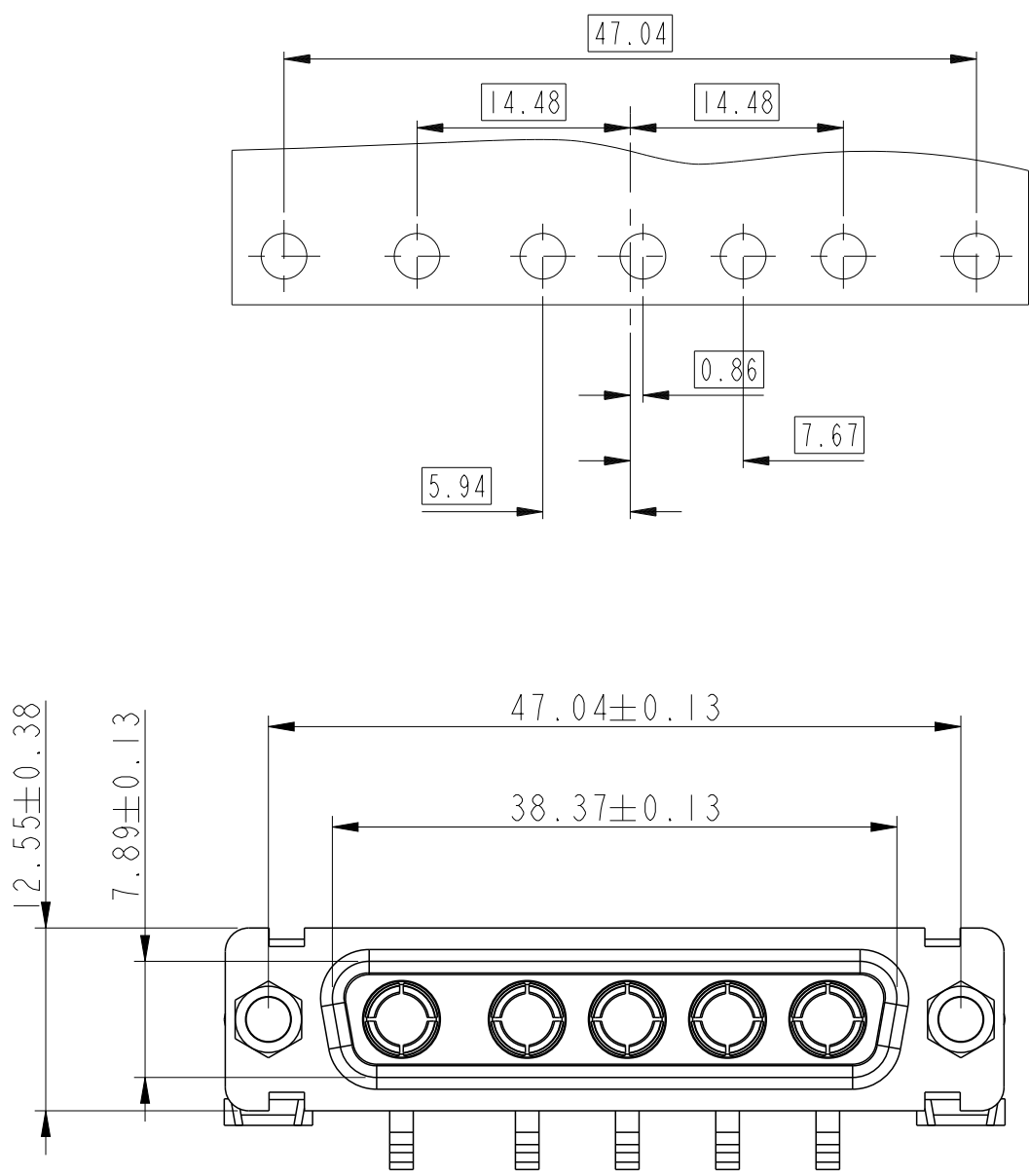
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tolerance std			TOLERANCES UNLESS OTHERWISE SPECIFIED			engGregar Mathew		2020/12/04				ecn noELX-I-33502-1		
			chr-		-				rel levelReleased					
			apprKuriakose, San		2020/12/06		product familyD SUB							
surface- 			linear		0.X±0.3 0.XX±0.1 0.XXX±0.05		Amphenol FCI		titleSUB FEMALE DW EUROPE foot print full power right angle press fit		dwg noC01-8639-2316C		revD	
			angular0°		±2°		cat. no.-		Product - Customer Drw		sheet 4 of 5			

PDS: Rev :D

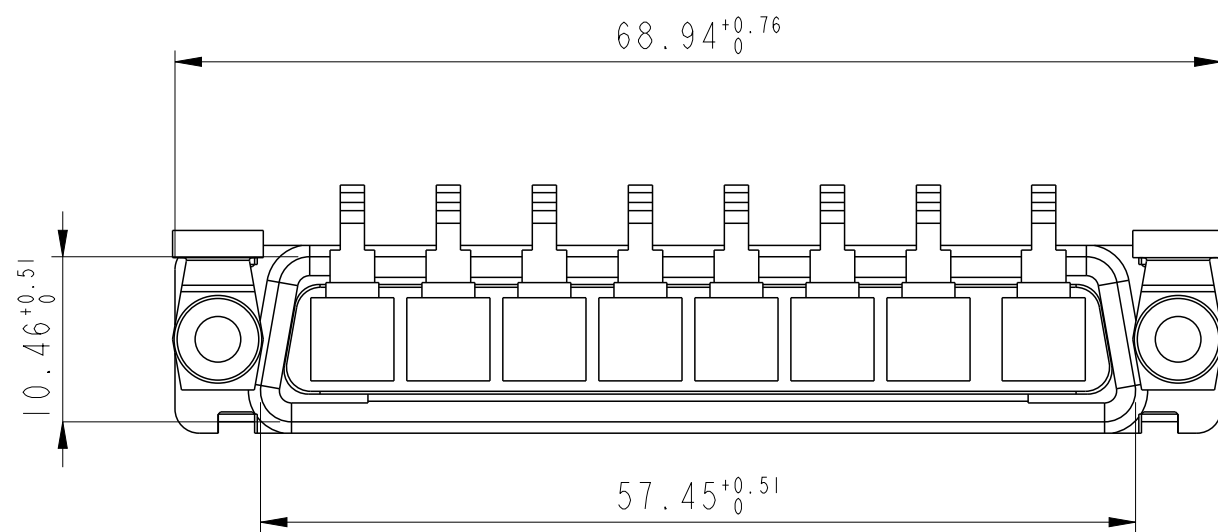
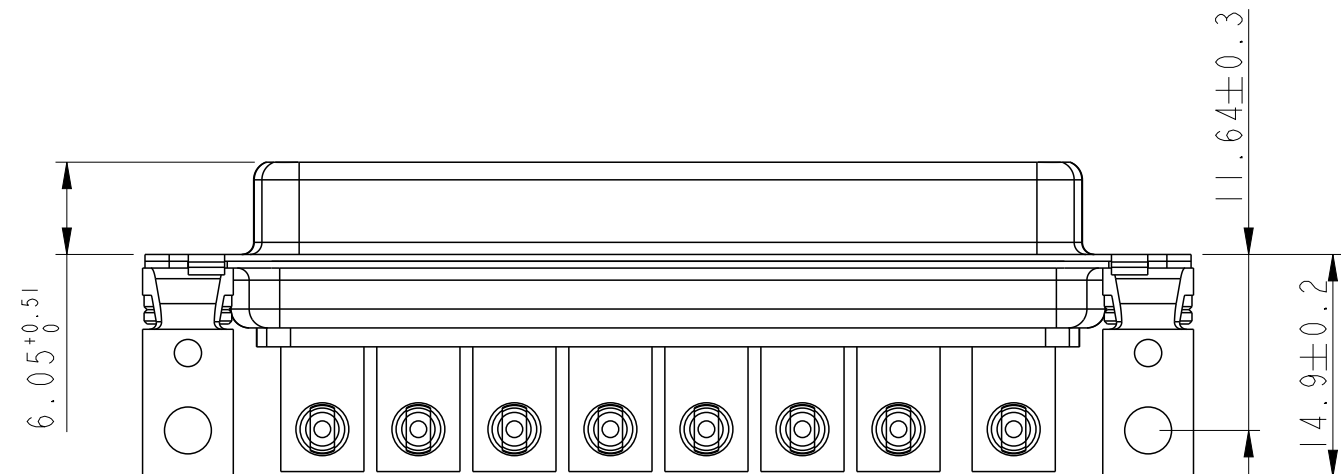
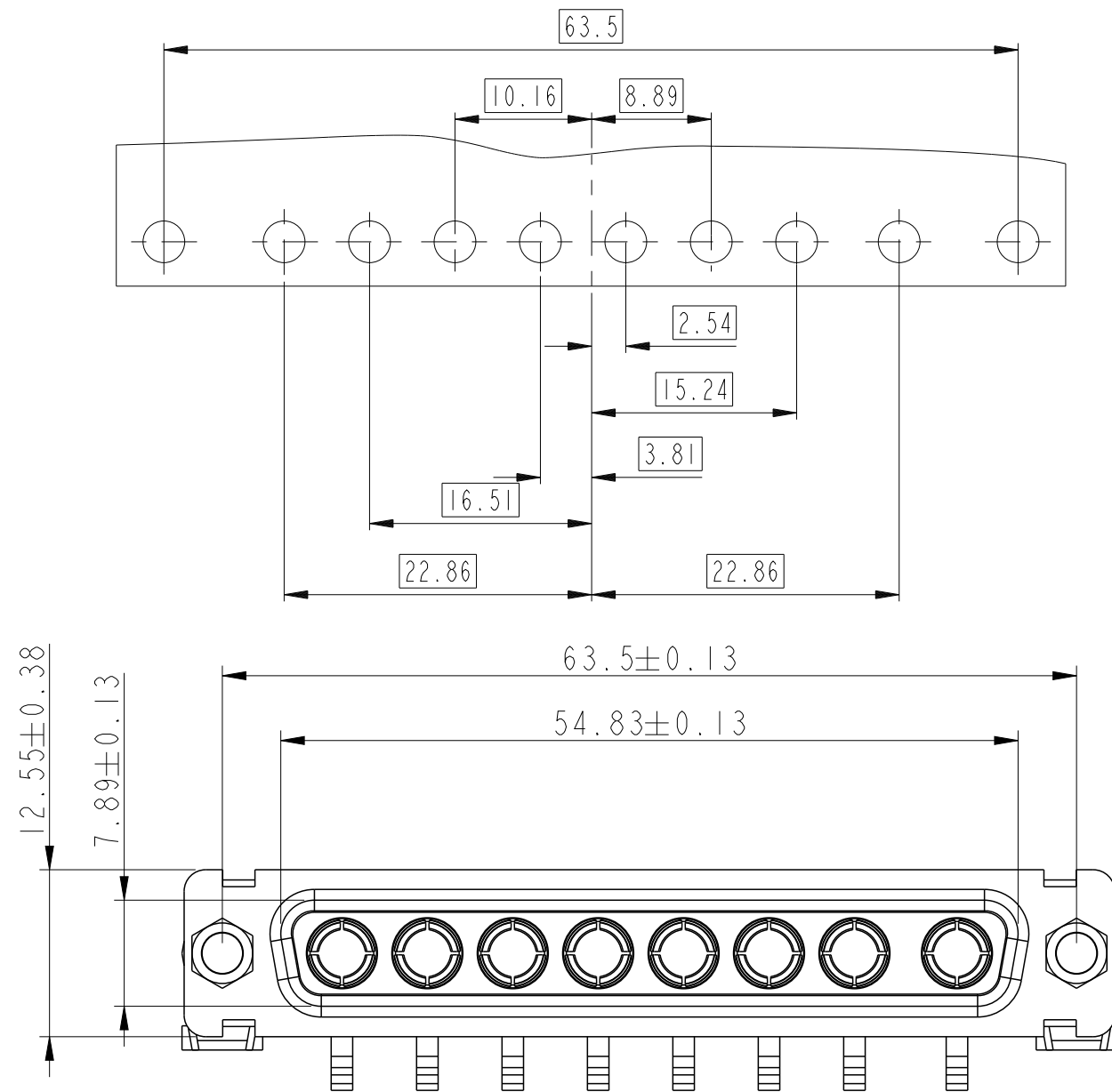
STATUS:Released

Printed: Dec 18, 2020

5W5
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



8W8
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		Gregar Mathew		2020/12/04				mm		A2 2:1	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		-		-							
		appr		Kuriakose, San		2020/12/06		product family		D SUB -		ecn no ELX-1-33502-1	
										rel level		Released	
surface 		linear		0.X ±0.3 0.XX ±0.1 0.XXX ±0.05		Amphenol FCI		title SUB FEMALE DW EUROPE foot print full power right angle press fit		dwg no C01-8639-2316C		rev D	
		angular		0° ±2°				cat. no.		-		Product - Customer Drw	
												sheet 5 of 5	