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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

ENVIRONMENTAL CHARACTERISTICS

- CLIMATIC CATEGORY: 55/125/21

TEMPERATURE RANGE -55°C TO +125°C

DAMP HEAT STEADY STATE 21 DAYS

SALT SPRAY 48 HOURS

MECHANICAL CHARACTERISTICS

- RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m minimum

- Female screw : 0.5 N.m minimum

NOTE RoHS INFORMATION

- The "LF" products meet european union Directives and other country regulations as described in GS-22-008.

- 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

- Power contacts: Ni 1.27µm+Sn 2.5 to 7.5µ,pure bright

- Active area plating spec:

- Signal and power contacts: Ni + Gold

- Shell plating :2 to 4µm Cu + nickel + 3 to 10µmm Sn,pure bright

- Accessories: Sn pure bright + nickel

- Packaging spec: See GS-14-920

Series

Shell size: E A B C D (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

5 Right angle/Europe standard

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.

40 :Fitted with power contacts 40 Amp.

DBL13W3S500G30LF

See note RoHS

TABLE 1:PCB HOLE DIAMETERS

POWER CONTACTS			ACCESSORIES	SIGNAL CONTACT
30 A	2.00	Ø2.40	Ø3.10	Ø0.9 min
40 A	2.80	Ø3.10		
Max current power	ØA ^{+0.1} ₀	PCB HOLE ±0.1	PCB HOLE ±0.1	PCB HOLE

Dr M PESSON 2005-10-11

Eng P LEGARE 2005-10-11

Chr

Appr

rev ecn no dr date

A LS05-0101 MPE 2005-10-11

B LS06-0208 LGO 2006-12-12

C LS07-0273 MPE 2007/10/31

D F09-0092 LSA 2009/09/16

E F10-0060 LSA 2010/06/01

- - -

- - -

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surface ISO 1302

tolerance std ISO 406 ISO 1101

projection

mm

TOLERANCES UNLESS OTHERWISE SPECIFIED

ANGULAR

LINEAR

0.X ±0.3

0.XX ±0.1

0.XXX ±0.05

size A2

Scale 2:1

0° ±2°

Product family

- Spec ref

FCI

title SUB FEMALE DMW EUROPE

mixed power right angled solder

dwg no C01-8639-2300

Rev. E

catalog no

- CUSTOMER

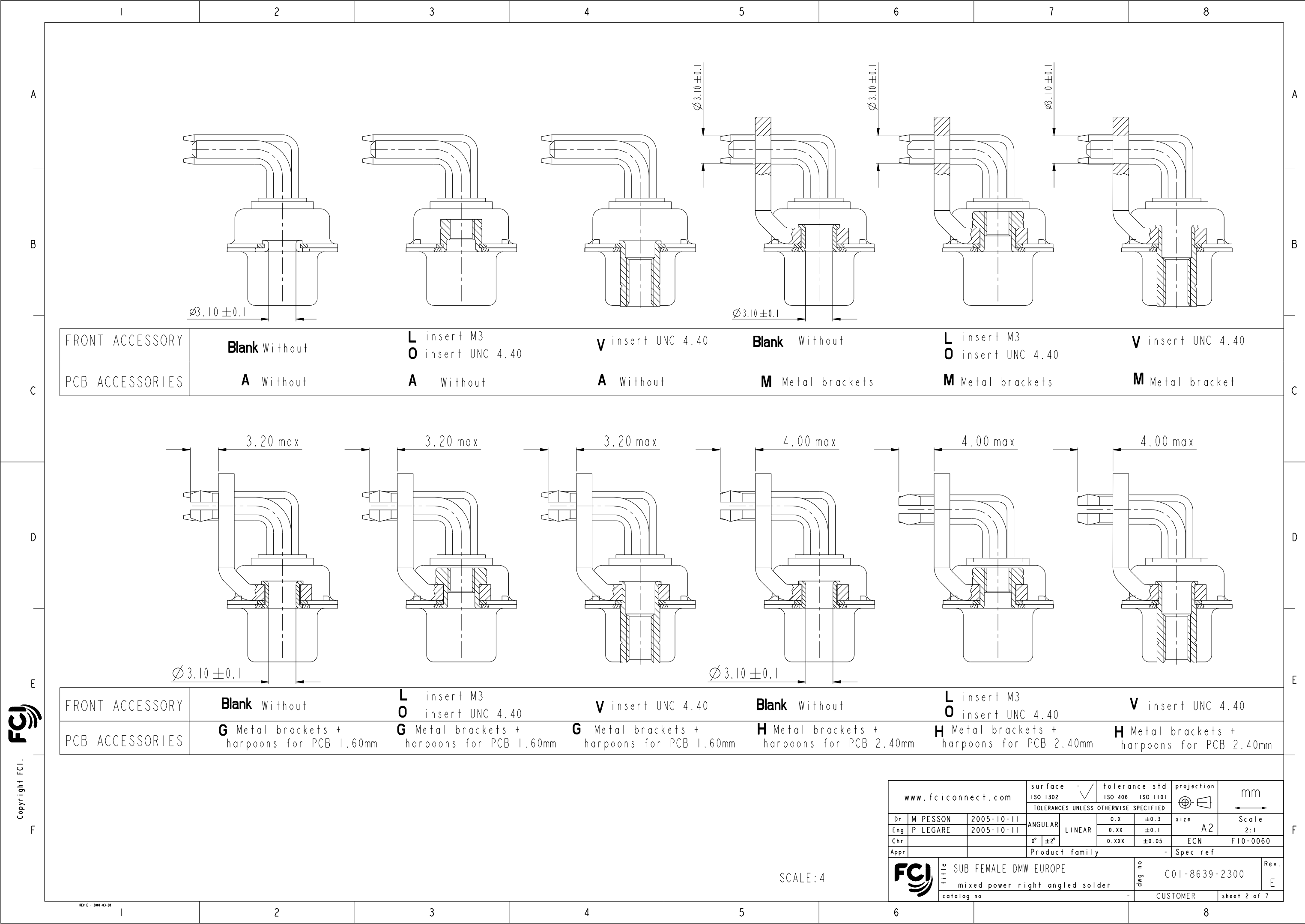
sheet 1 of 7

13W3 FOR EXAMPLE

Ø A

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PDM: Rev:E STATUSReleased Printed: Oct 01, 2010



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

www.fciconnect.com			surface -		tolerance std		projection		mm		
			ISO 1302		ISO 406 ISO 1101						
			TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	M PESSON	2005-10-11	ANGULAR	LINEAR	0.X ±0.3		size A2	Scale 2:1			
Eng	P LEGARE	2005-10-11			0.XX ±0.1						
Chr			0° ±2°		0.XXX ±0.05		ECN F10-0060				
Appr			Product family					- Spec ref			
			title SUB FEMALE DMW EUROPE			dwg no C01-8639-2300			Rev. E		
			mixed power right angled solder								
			catalog no			- CUSTOMER			sheet 2 of 7		

FCI
Copyright FCI.

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	D*LxWxS543M30LF	30	500	insert M3	metal bracket																																																												
	D*OxWxS543M30LF	30	500	insert UNC 4.40	metal bracket																																																												
	D*VxWxS543M30LF	30	500	female screw UNC 4.40	metal bracket																																																												

FCI

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FCI

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surface - ✓
ISO 1302

tolerance std
ISO 406 ISO 1101
TOLERANCES UNLESS OTHERWISE SPECIFIED

projection
⊕

mm
↔

Dr M PESSON
Eng P LEGARE
Chr
Appr

2005-10-11
2005-10-11

ANGULAR
0° ±2°

LINEAR
0.X ±0.3
0.XX ±0.1
0.XXX ±0.05

size
A2

Scale
2:1

ECN
F10-0060

Product family
- Spec ref

FCI

Sub FEMALE DMW EUROPE
mixed power right angled solder
catalog no -

dwg no
C01-8639-2300

Rev.
E

CUSTOMER

sheet 3 of 7

FCI

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FCI

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surface - ✓
ISO 1302

tolerance std
ISO 406 ISO 1101
TOLERANCES UNLESS OTHERWISE SPECIFIED

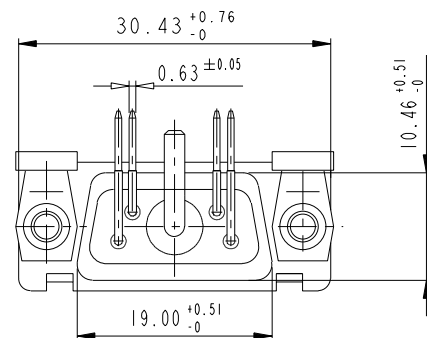
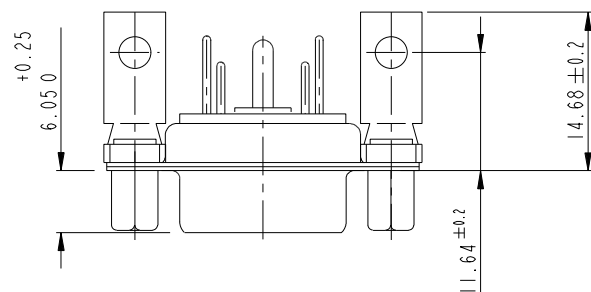
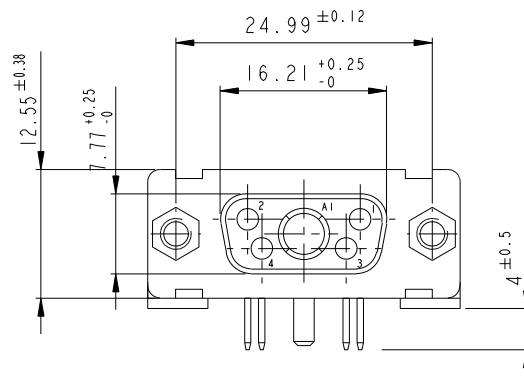
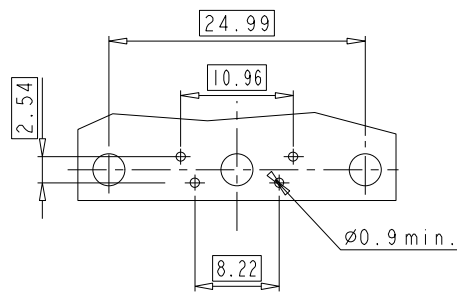
projection
⊕

mm
↔

Dr M PESSON
Eng P LEGARE
Chr

5W1

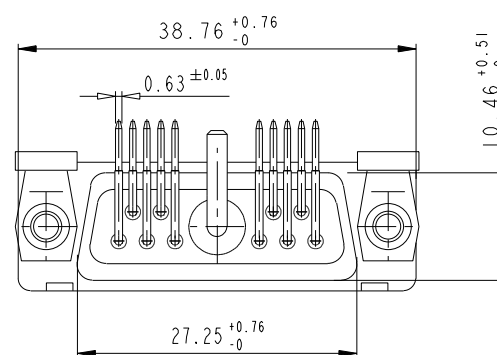
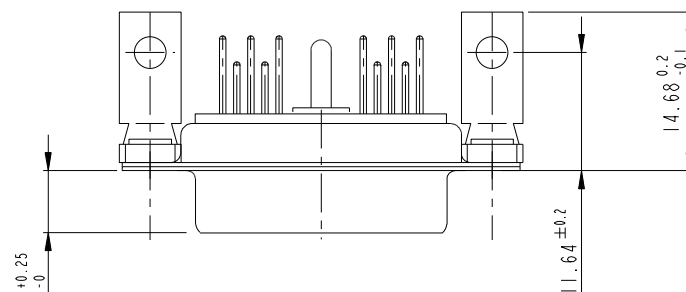
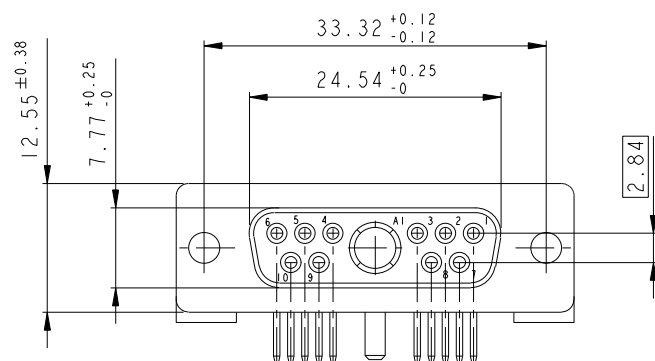
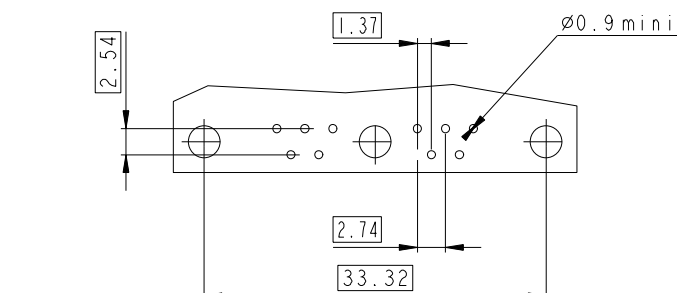
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



Floating signal contacts

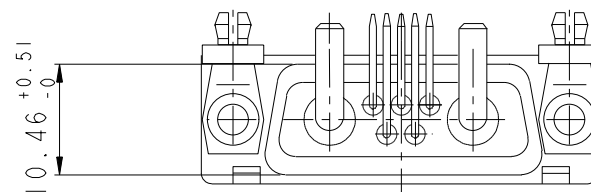
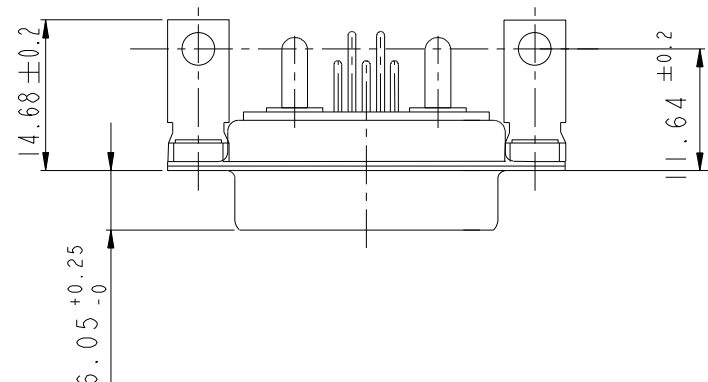
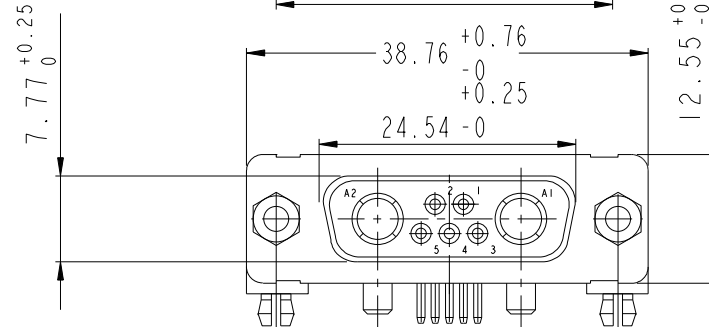
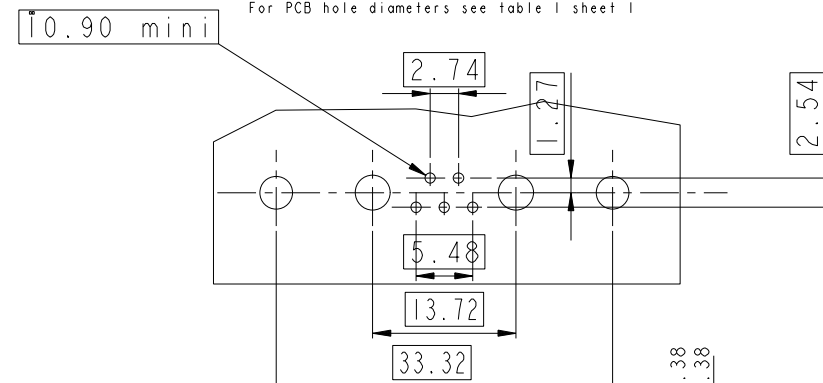
11W1

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

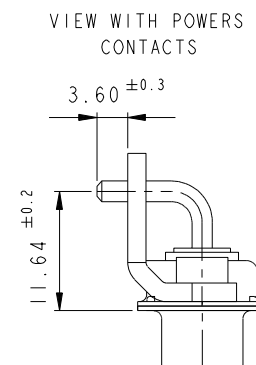
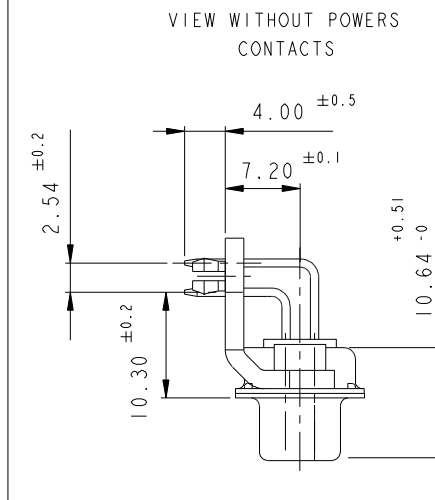


7W2

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



SIDE VIEW FOR ALL LAYOUTS
(except size D)



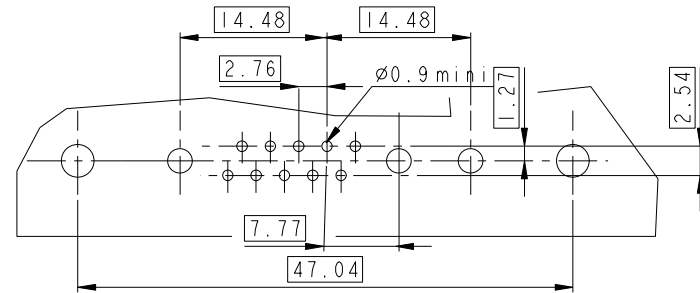
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www.fciconnect.com			surface - 		tolerance std		projection		mm		
			ISO 1302		ISO 406 ISO 1101						
			TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	M PESSON	2005-10-11	ANGULAR	LINEAR	0.X	±0.3	size A2	Scale 2:1			
Eng	P LEGARE	2005-10-11			0.XX	±0.1					
Chr					0.XXX	±0.05					
Appr			Product family				-	Spec ref			
			SUB FEMALE DMW EUROPE				dwg no		C01-8639-2300		Rev
			mixed power right angled solder								E
			catalog no				-		CUSTOMER		sheet 4 of 7

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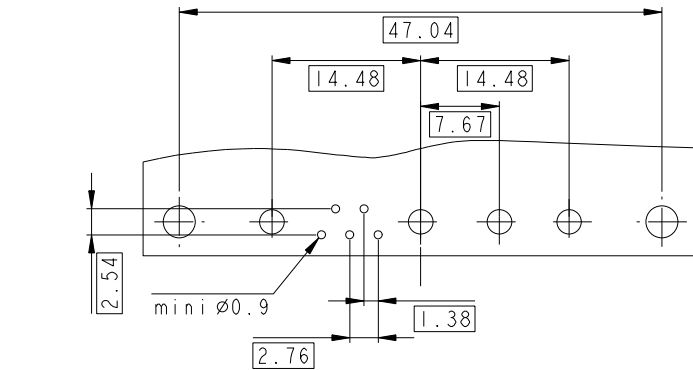
13W3

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



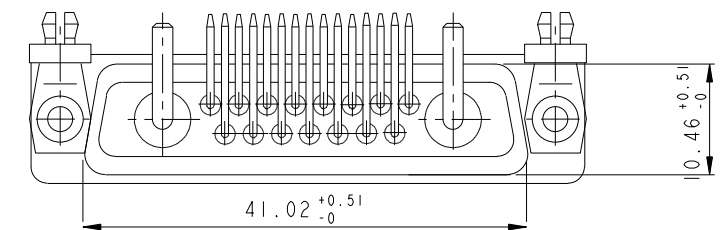
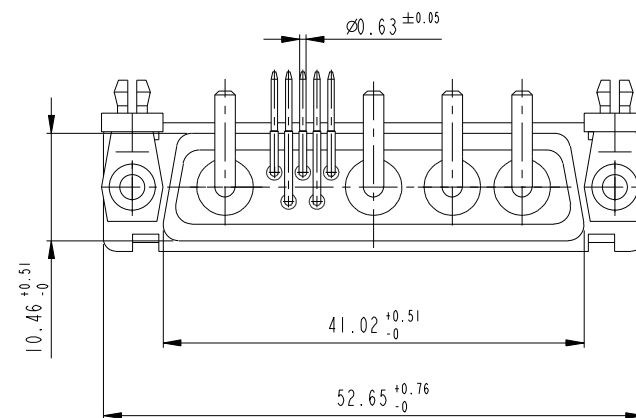
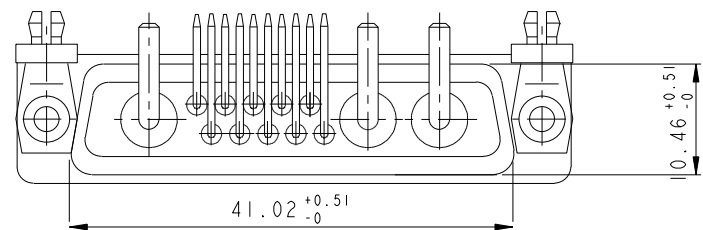
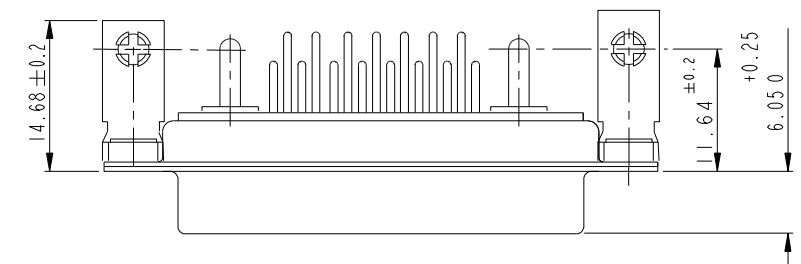
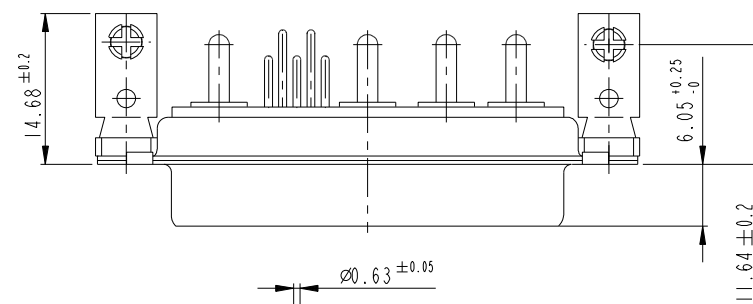
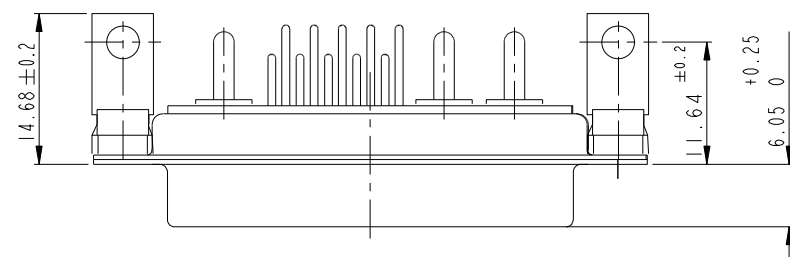
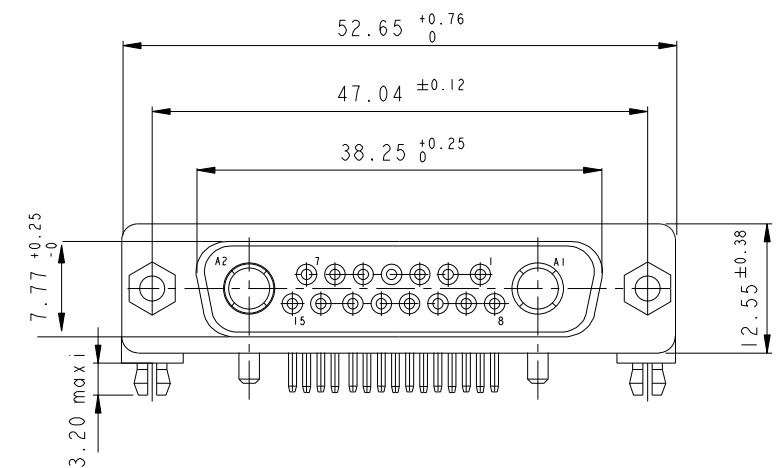
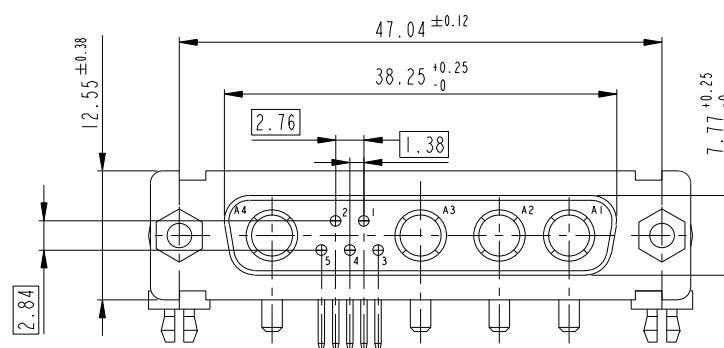
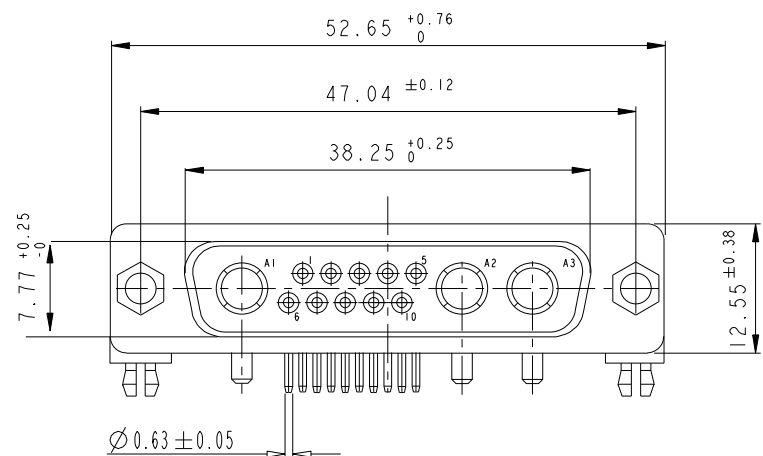
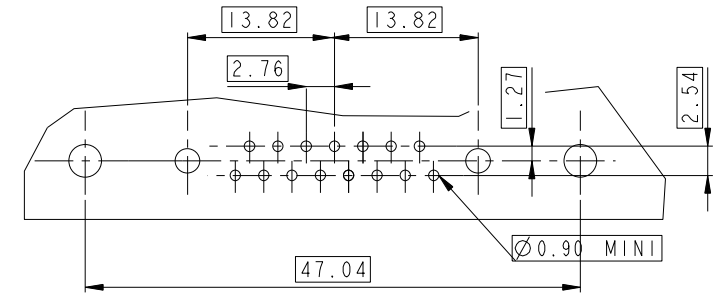
9W4

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



17W2

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



Floating signal contacts

www.fciconnect.com			surface 		tolerance std ISO 1302 ISO 406 ISO 1101		projection 		mm 	
			TOLERANCES UNLESS OTHERWISE SPECIFIED							
Dr	M PESSON	2005-10-11	ANGULAR	LINEAR	0.X	±0.3	size A2	Scale 2:1		
Eng	P LEGARE	2005-10-11			0.XX	±0.1				
Chr			0° ±2°		0.XXX	±0.05	ECN		F10-0060	
Appr			Product family				-	Spec ref		
		title	SUB FEMALE DMW EUROPE mixed power right angled solder				dwg no	C01-8639-2300		Rev. E
			catalog no	-	CUSTOMER		sheet 5 of 7			



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1

2

3

4

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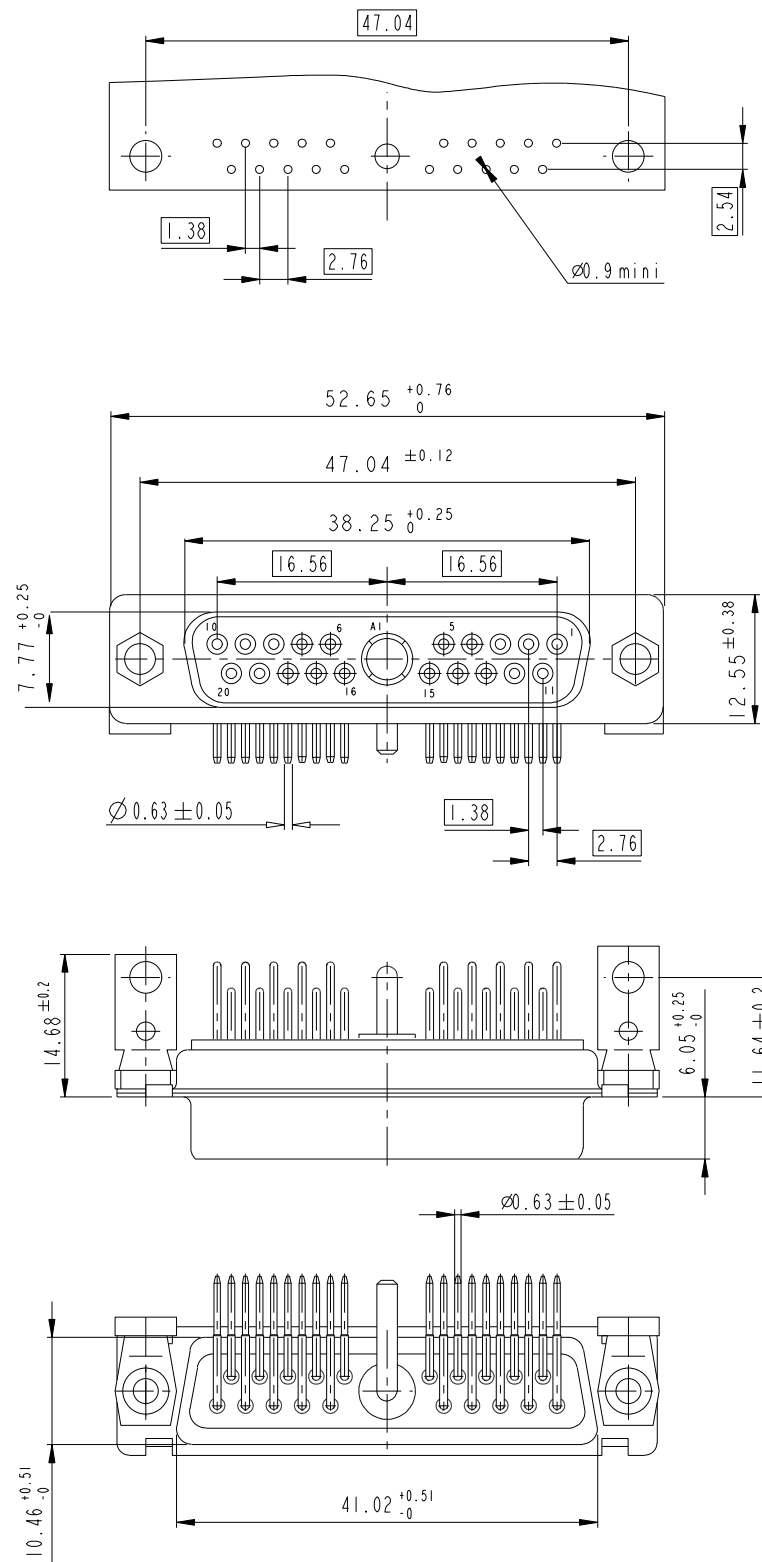
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7

8

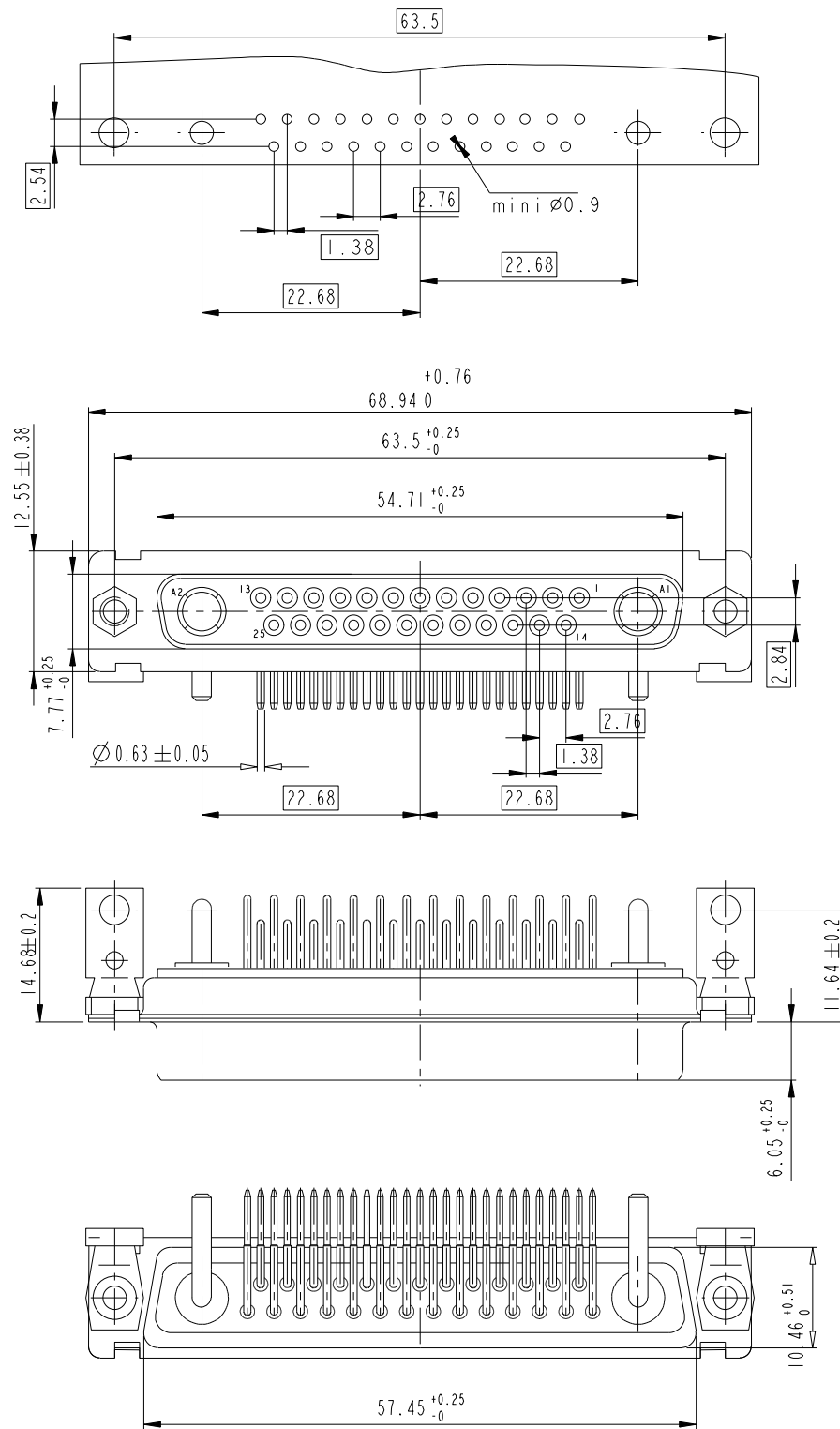
21W1

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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2

3

4

5

6

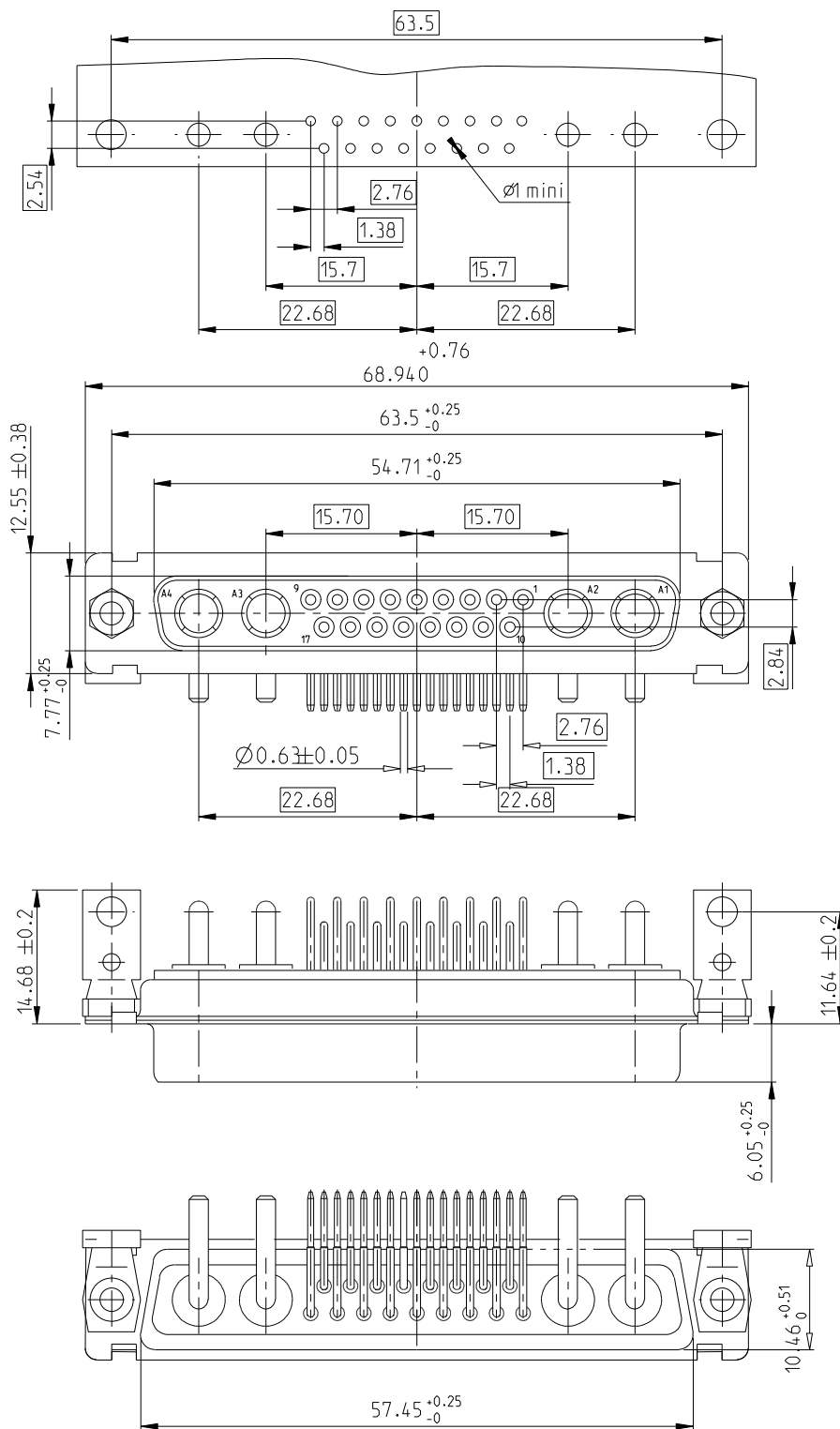
8

www.fciconnect.com		surface	-	tolerance std	ISO 1302	ISO 406	ISO 1101	projection	mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED							
Dr	M PESSON	2005-10-11	ANGULAR	0.X	±0.3	size	A2	Scale	2:1
Eng	P LEGARE	2005-10-11	LINEAR	0.XX	±0.1	ECN	F10-0060	Rev.	E
Chr			0° ±2°	0.XXX	±0.05	Product family	-	Spec ref	
Appr									
FCI		SUB FEMALE DMW EUROPE				dwg no	C01-8639-2300		
		mixed power right angled solder				catalog no	-	CUSTOMER	sheet 6 of 7

21W A4

LAYOUT AND CONNECTOR DIMENSIONS

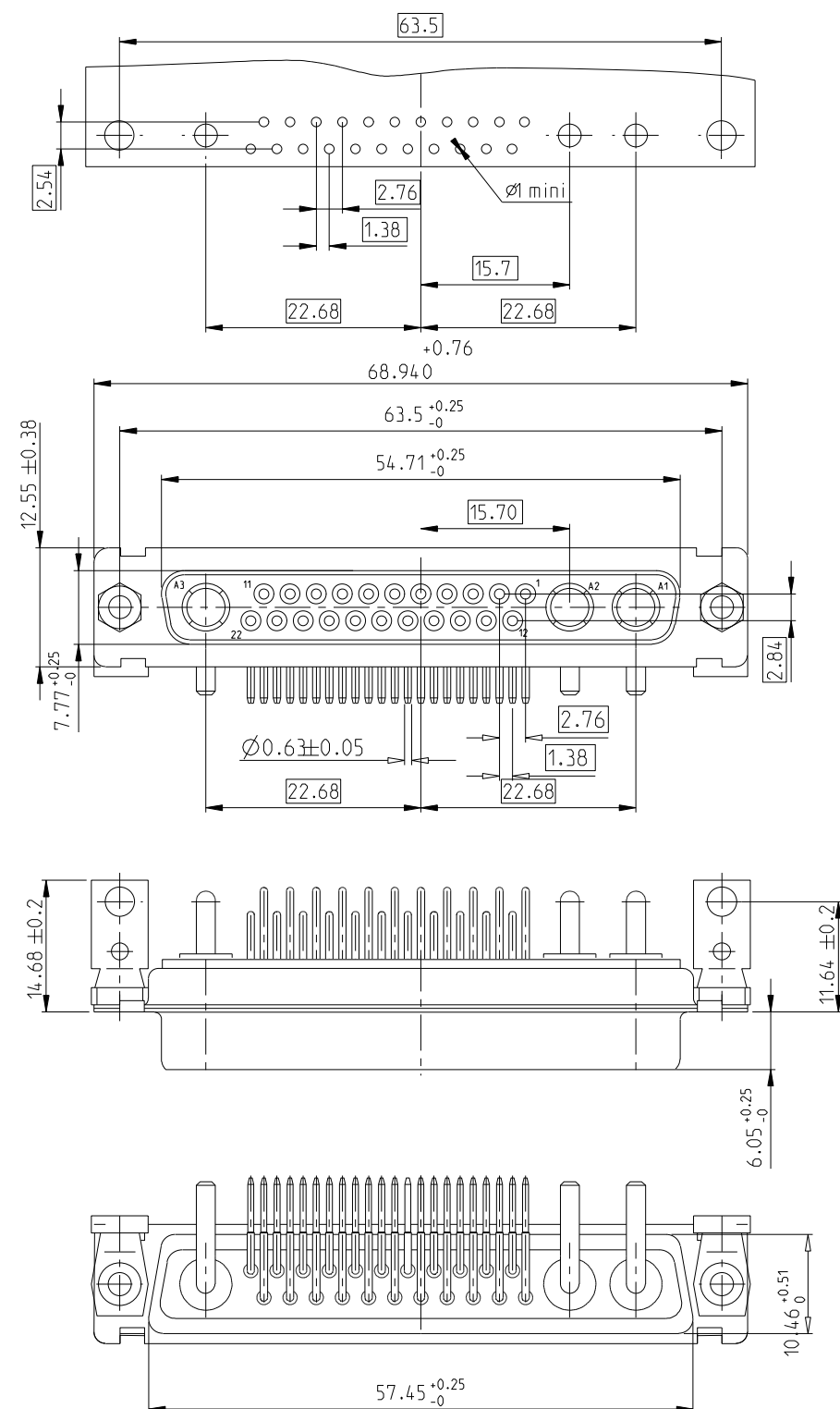
For PCB hole diameters see table 1 sheet 1



25W 3

LAYOUT AND CONNECTOR DIMENSIONS

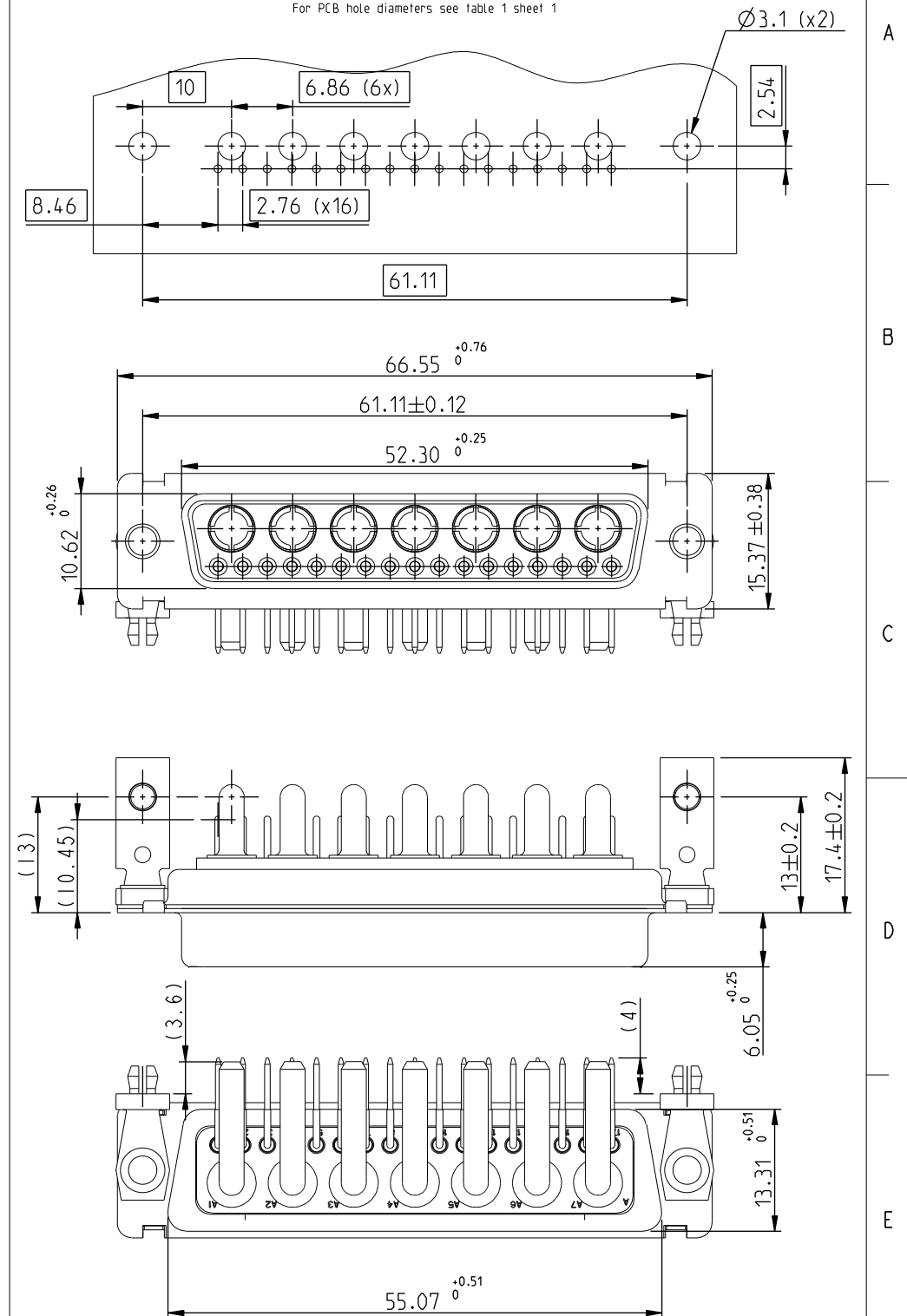
For PCB hole diameters see table 1 sheet 1



24W 7

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1



www.fciconnect.com			surface ISO 1302		tolerance std ISO 406 ISO 1101		projection 		mm 		
			TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	M PESSON	2005-10-11	ANGULAR	LINEAR	0.X	±0.3	size A2	Scale 2:1			
Eng	P LEGARE	2005-10-11			0.XX	±0.1					
Chr					0.XXX	±0.05					
Appr			Product family				-		Spec ref		
			title SUB FEMALE DMW EUROPE mixed power right angled solder				dwg no C01-8639-2300			Rev. E	
			catalog no				-		CUSTOMER		sheet 7 of 7