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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

TOLERANCES UNLESS OTHERWISE SPECIFIED

ANGULAR LINEAR

0° ±2°

0.X ±0.3

0.XX ±0.1

0.XXX ±0.05

projection

size A2

Scale 2:1

ECN F10-0060

Product family

- Spec ref

FCI

title SUB FEMALE DMW EUROPE

mixed power right angled solder

catalog no

dwg no C01-8639-2300

Rev. E

sheet 1 of 7

CUSTOMER

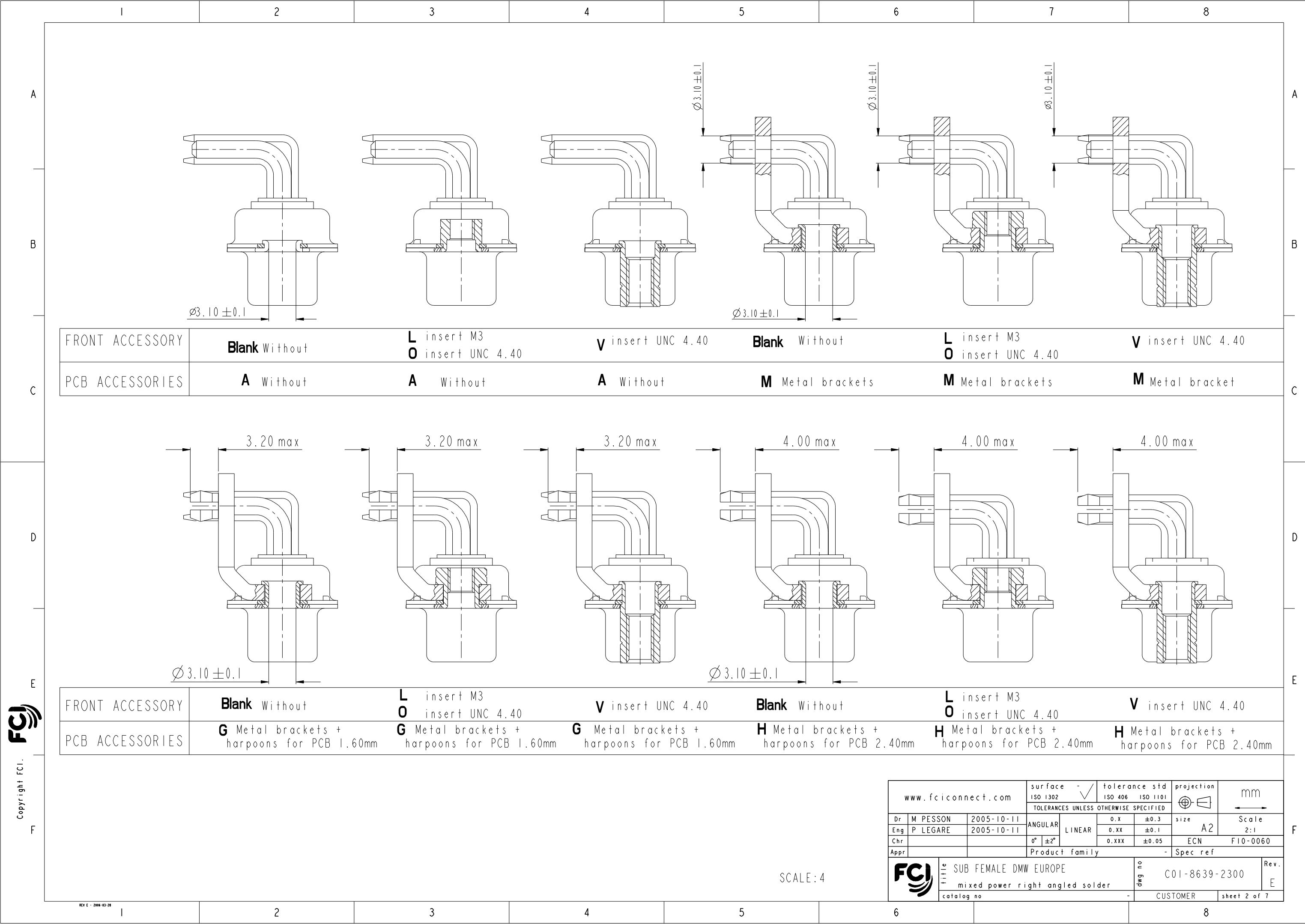
13W3 FOR EXAMPLE

Ø A

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REV E - 2006-03-28

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



FCI
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www.fciconnect.com			surface - 		tolerance std		projection			
			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			0° ±2°				ECN		F10-0060	
			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 2 of 7	

FCI

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A

B

C

D

E

F

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PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS500A30LF	30	200	without	without
D*LxWxS500A30LF	30	200	insert M3	without
D*OxWxS500A30LF	30	200	insert UNC 4.40	without
D*VxWxS500A30LF	30	200	female screw UNC 4.40	without
D*xWxS500H30LF	30	200	without	metal bracket+harpoon PCB 2.40mm
D*LxWxS500H30LF	30	200	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxS500H30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxS500H30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxS500G30LF	30	200	without	metal bracket+harpoon PCB 1.60mm
D*LxWxS500G30LF	30	200	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxS500G30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxS500G30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxS500M30LF	30	200	without	metal bracket
D*LxWxS500M30LF	30	200	insert M3	metal bracket
D*OxWxS500M30LF	30	200	insert UNC 4.40	metal bracket
D*VxWxS500M30LF	30	200	female screw UNC 4.40	metal bracket

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS500A40LF	40	200	without	without
D*LxWxS500A40LF	40	200	insert M3	without
D*OxWxS500A40LF	40	200	insert UNC 4.40	without
D*VxWxS500A40LF	40	200	female screw UNC 4.40	without
D*xWxS500H40LF	40	200	without	metal bracket+harpoon PCB 2.40mm
D*LxWxS500H40LF	40	200	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxS500H40LF	40	200	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxS500H40LF	40	200	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxS500G40LF	40	200	without	metal bracket+harpoon PCB 1.60mm
D*LxWxS500G40LF	40	200	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxS500G40LF	40	200	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxS500G40LF	40	200	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxS500M40LF	40	200	without	metal bracket
D*LxWxS500M40LF	40	200	insert M3	metal bracket
D*OxWxS500M40LF	40	200	insert UNC 4.40	metal bracket
D*VxWxS500M40LF	40	200	female screw UNC 4.40	metal bracket

shell size

*

E

A

A

B

B

B

B

C

C

C

D

LAYOUTS
xWx

5W1
11W1
7W2
21W1
17W2
13W3
9W4
25W3
21WA4
27W2
24W7

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS543A30LF	30	500	without	without
D*LxWxS543A30LF	30	500	insert M3	without
D*OxWxS543A30LF	30	500	insert UNC 4.40	without
D*VxWxS543A30LF	30	500	female screw UNC 4.40	without
D*xWxS543H30LF	30	500	without	metal bracket+harpoon PCB 2.40mm
D*LxWxS543H30LF	30	500	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxS543H30LF	30	500	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxS543H30LF	30	500	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxS543G30LF	30	500	without	metal bracket+harpoon PCB 1.60mm
D*LxWxS543G30LF	30	500	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxS543G30LF	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*xWxS543M30LF	30	500	without	metal bracket
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

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS543A40LF	40	500	without	without
D*LxWxS543A40LF	40	500	insert M3	without
D*OxWxS543A40LF	40	500	insert UNC 4.40	without
D*VxWxS543A40LF	40	500	female screw UNC 4.40	without
D*xWxS543H40LF	40	500	without	metal bracket+harpoon PCB 2.40mm
D*LxWxS543H40LF	40	500	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxS543H40LF	40	500	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxS543H40LF	40	500	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxS543G40LF	40	500	without	metal bracket+harpoon PCB 1.60mm
D*LxWxS543G40LF	40	500	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxS543G40LF	40	500	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxS543G40LF	40	500	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxS543M40LF	40	500	without	metal bracket
D*LxWxS543M40LF	40	500	insert M3	metal bracket
D*OxWxS543M40LF	40	500	insert UNC 4.40	metal bracket
D*VxWxS543M40LF	40	500	female screw UNC 4.40	metal bracket

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surface
ISO 1302

tolerance std
ISO 406 ISO 1101

projection
mm

Dr M PESSON 2005-10-11

Eng P LEGARE 2005-10-11

Chr

Appr

ANGULAR

LINEAR

0° ±2°

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

the SUB FEMALE DMW EUROPE

mixed power right angled solder

catalog no

dwg no C01-8639-2300

Rev. E

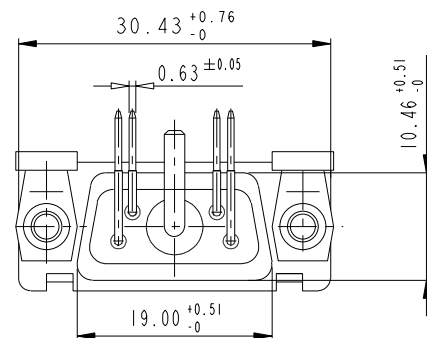
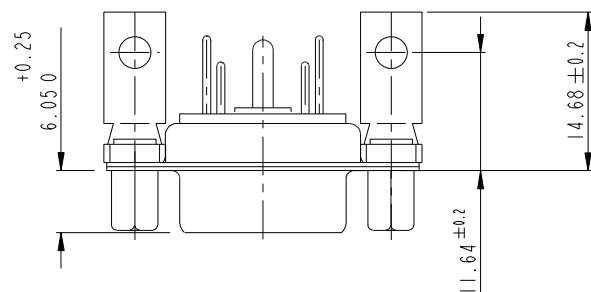
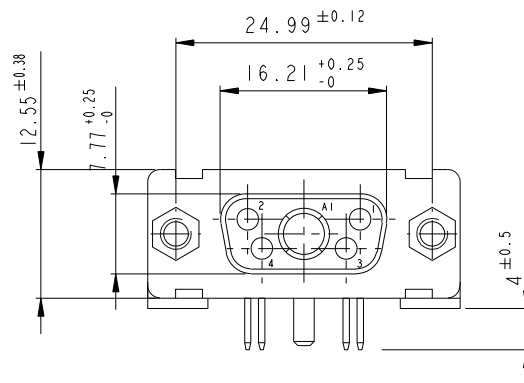
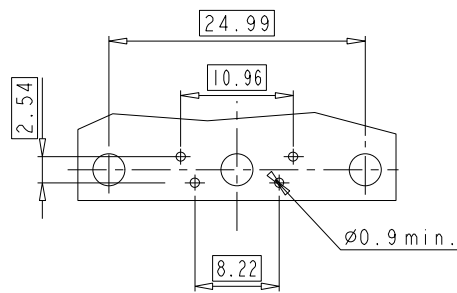
CUSTOMER

sheet 3 of 7

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5W1

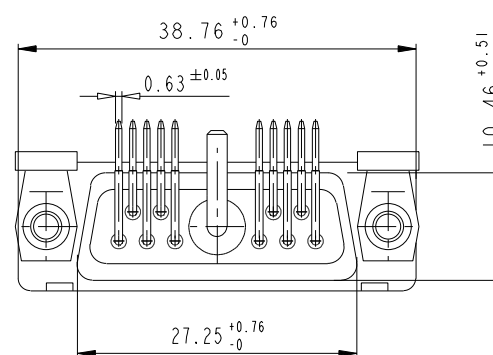
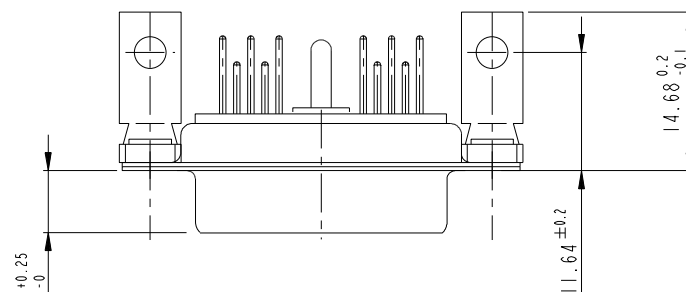
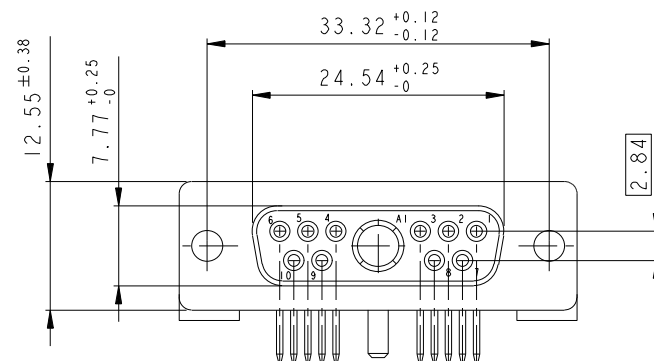
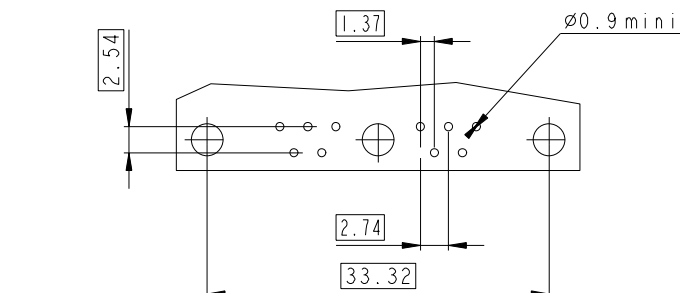
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



Floating signal contacts

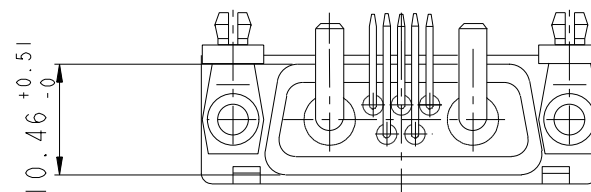
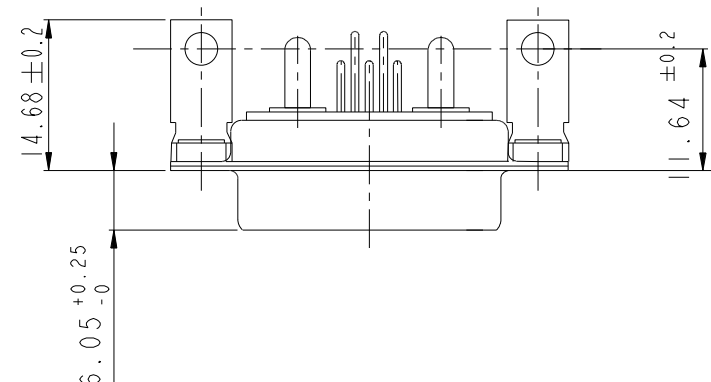
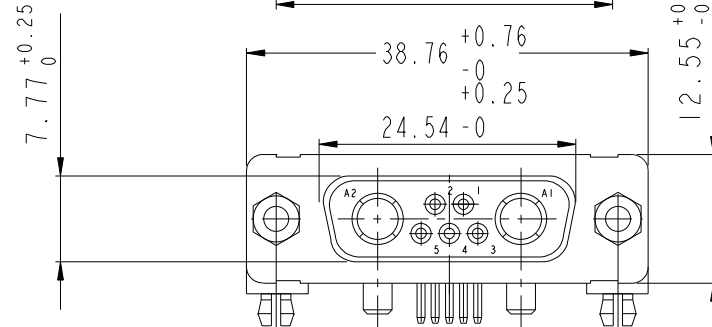
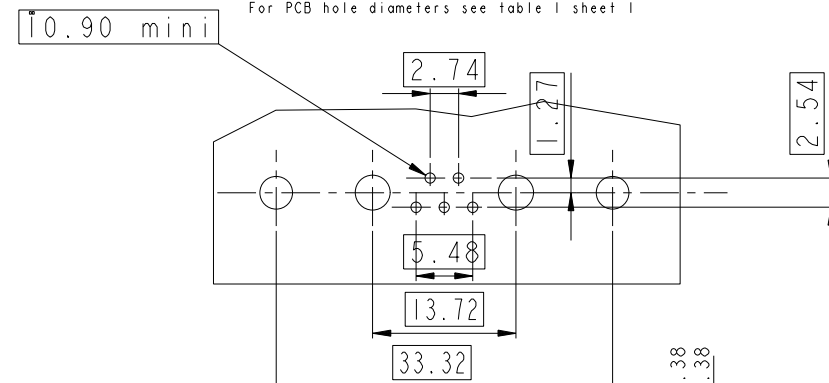
11W1

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

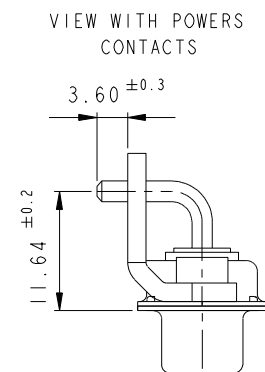
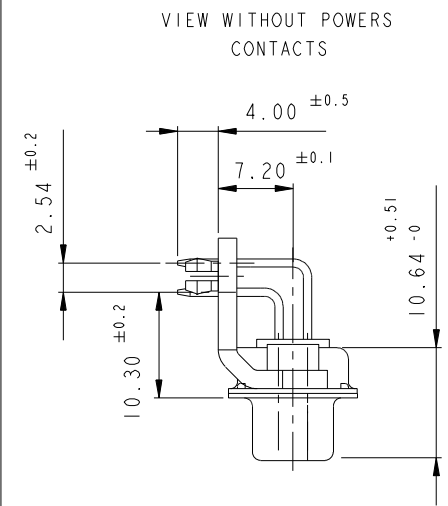


7W2

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



SIDE VIEW FOR ALL LAYOUTS
(except size D)

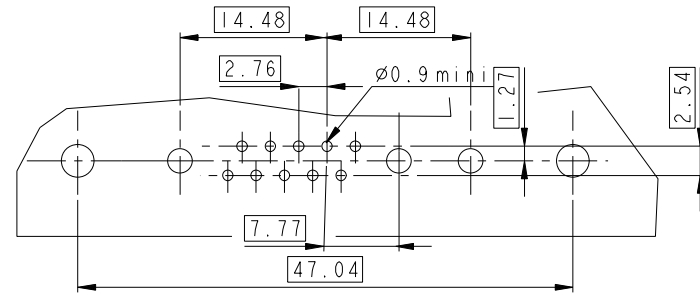


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www.fciconnect.com			surface	✓	tolerance std	projection	mm
			ISO 1302		ISO 406 ISO 1101		
			TOLERANCES UNLESS OTHERWISE SPECIFIED				
Dr	M PESSON	2005-10-11	ANGULAR	LINEAR	0.X	±0.3	size
Eng	P LEGARE	2005-10-11			0.XX	±0.1	A2
Chr					0.XXX	±0.05	ECN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

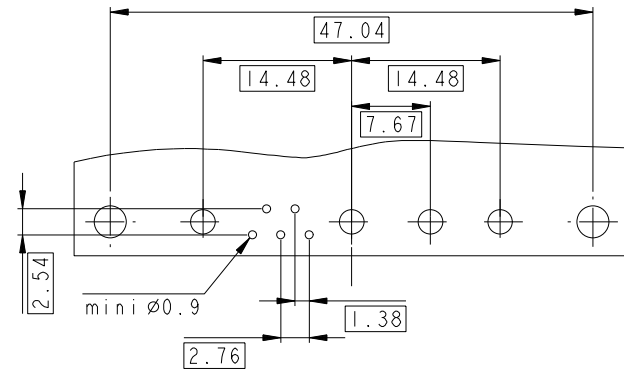
13W3

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



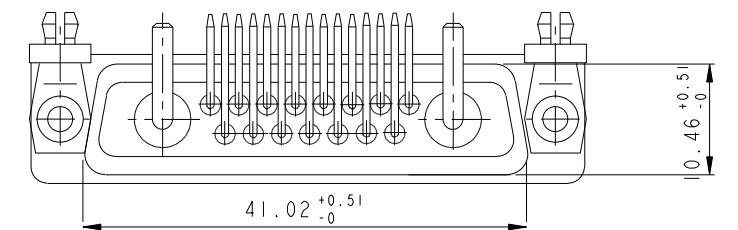
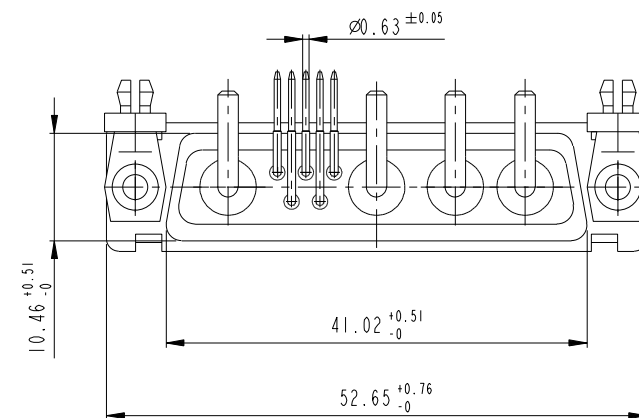
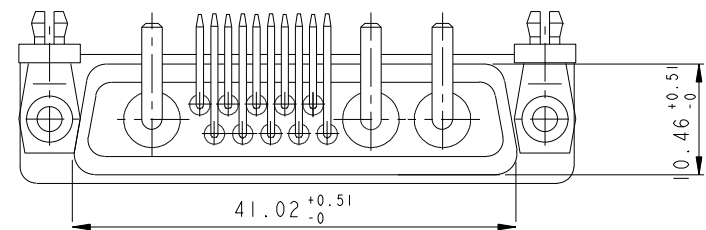
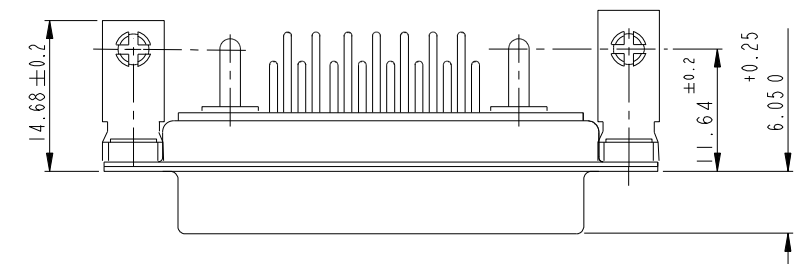
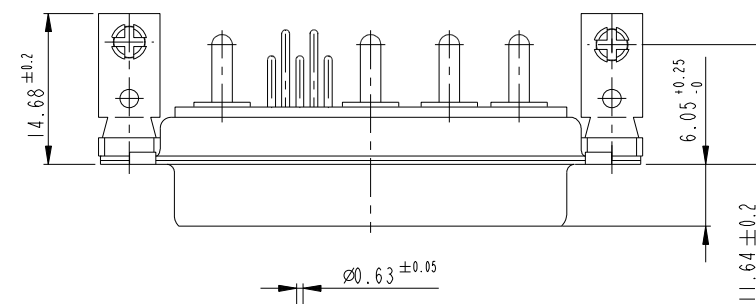
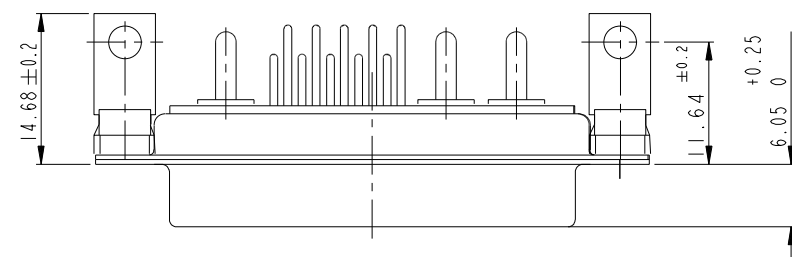
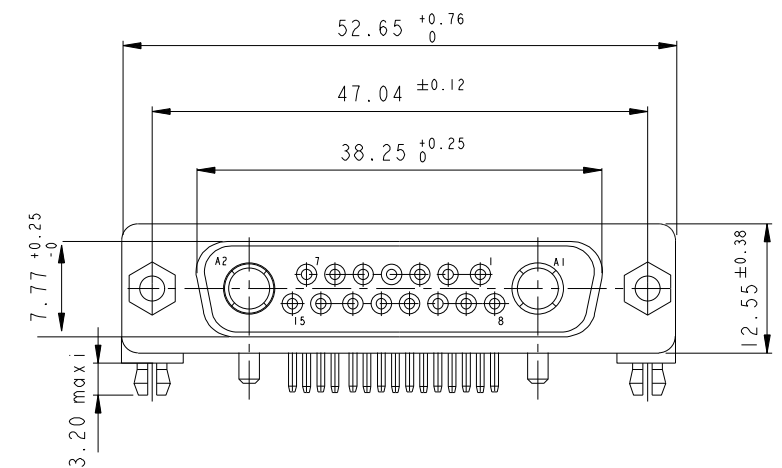
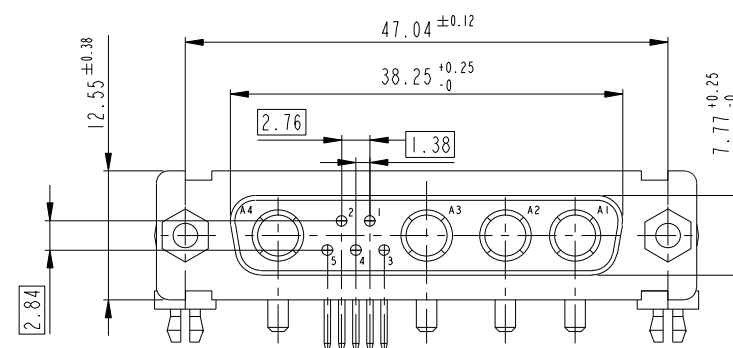
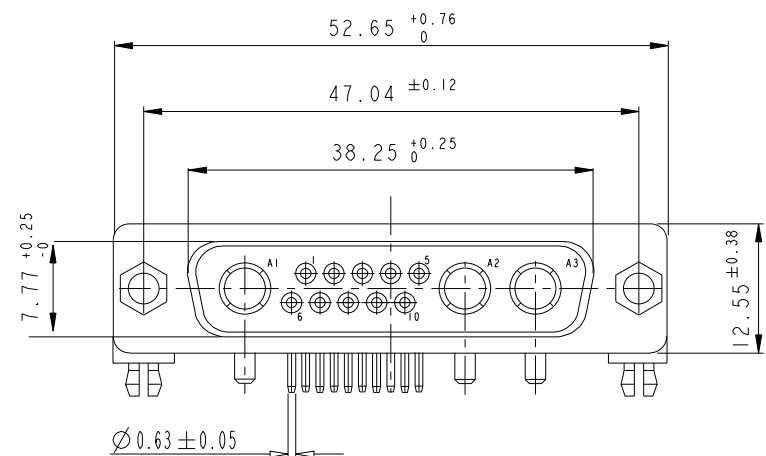
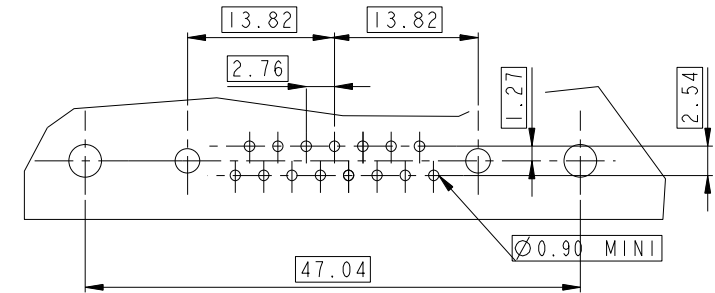
9W4

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	Scale		
Eng	P LEGARE	2005-10-11			0.XX	±0.1	A2		2:1	
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 5 of 7	



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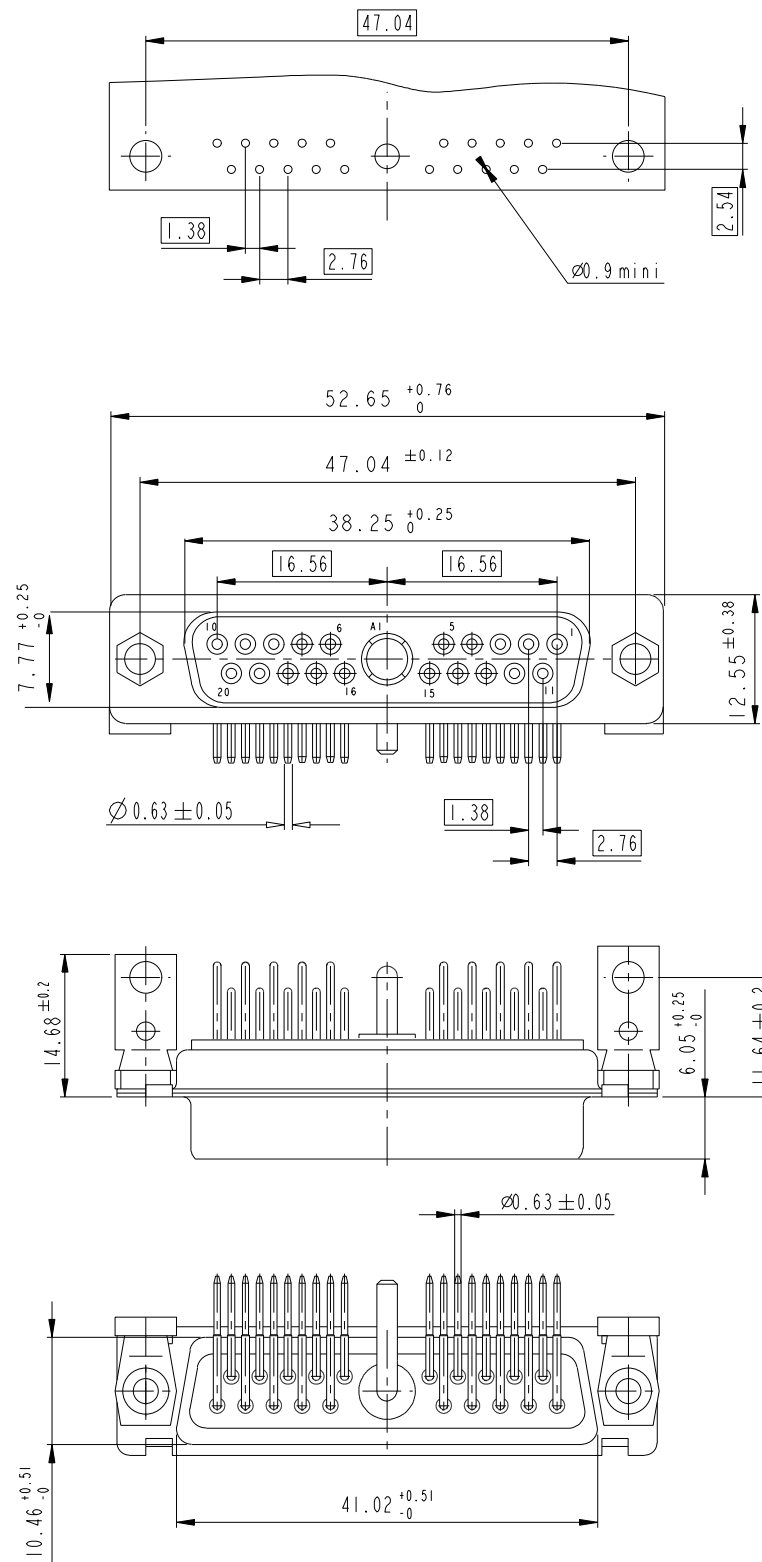
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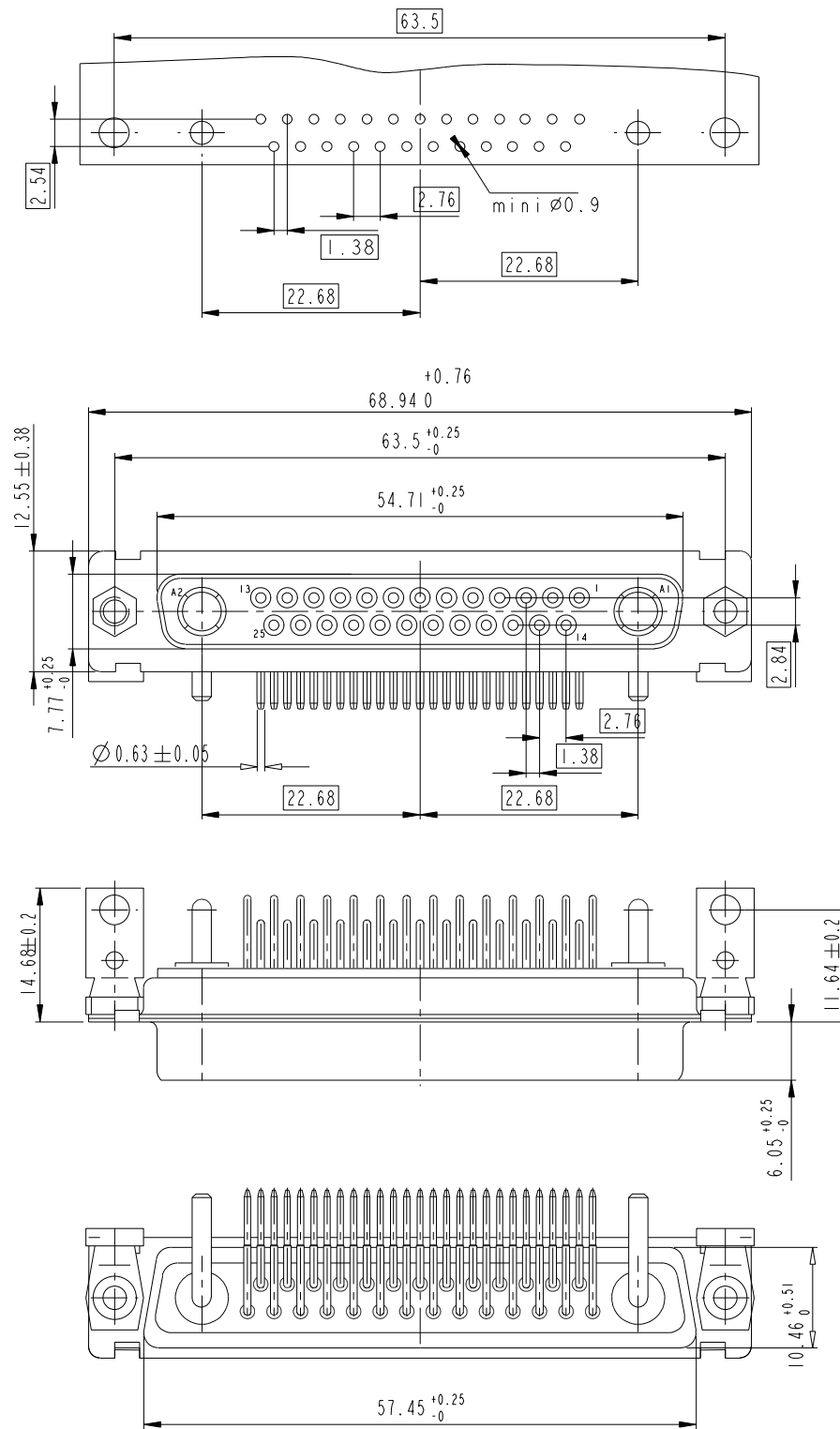
21W1

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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REV E - 2006-03-28

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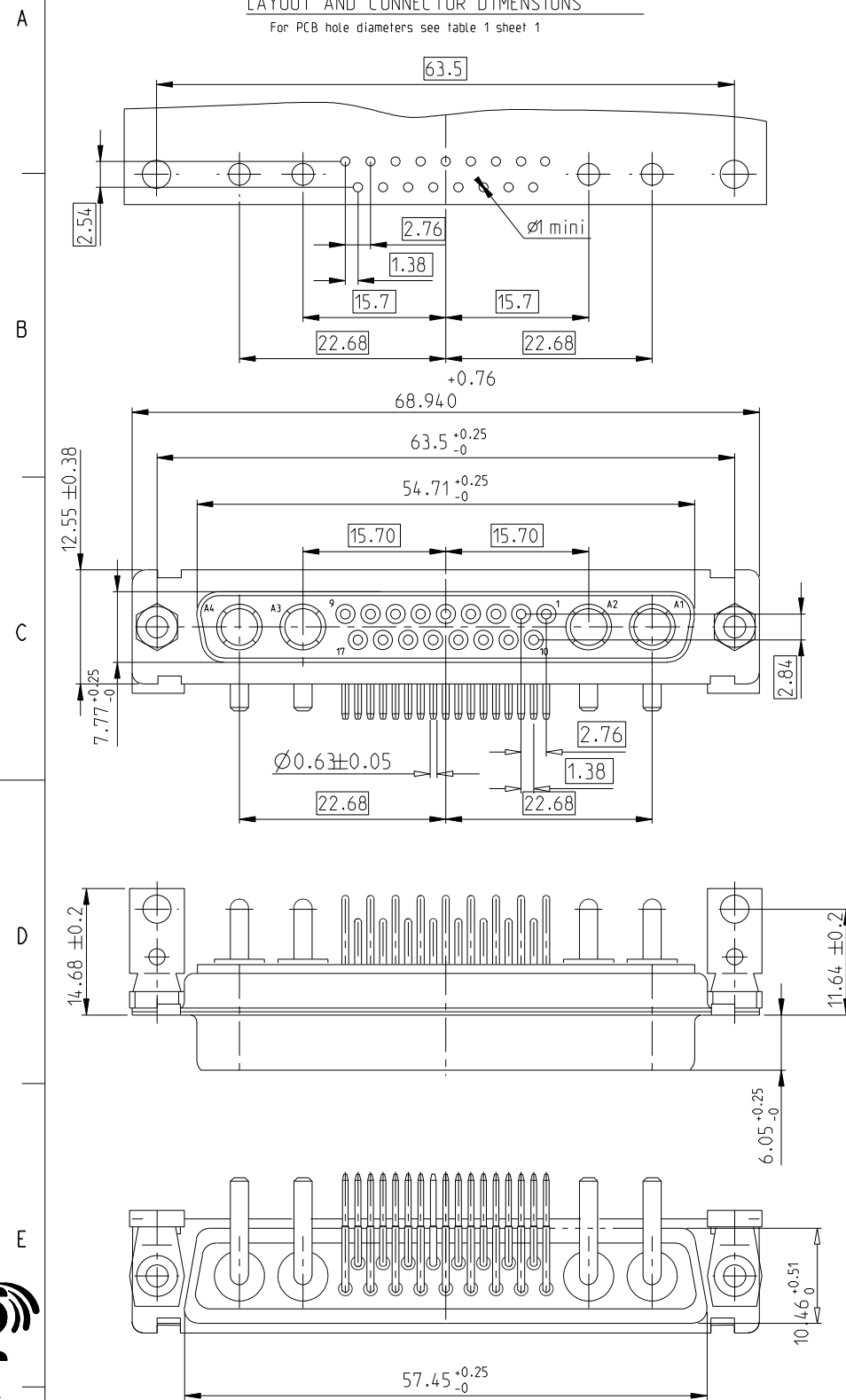
6

8

www.fciconnect.com		surface	-	tolerance std	ISO 1302	ISO 406	ISO 1101	projection	mm
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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		

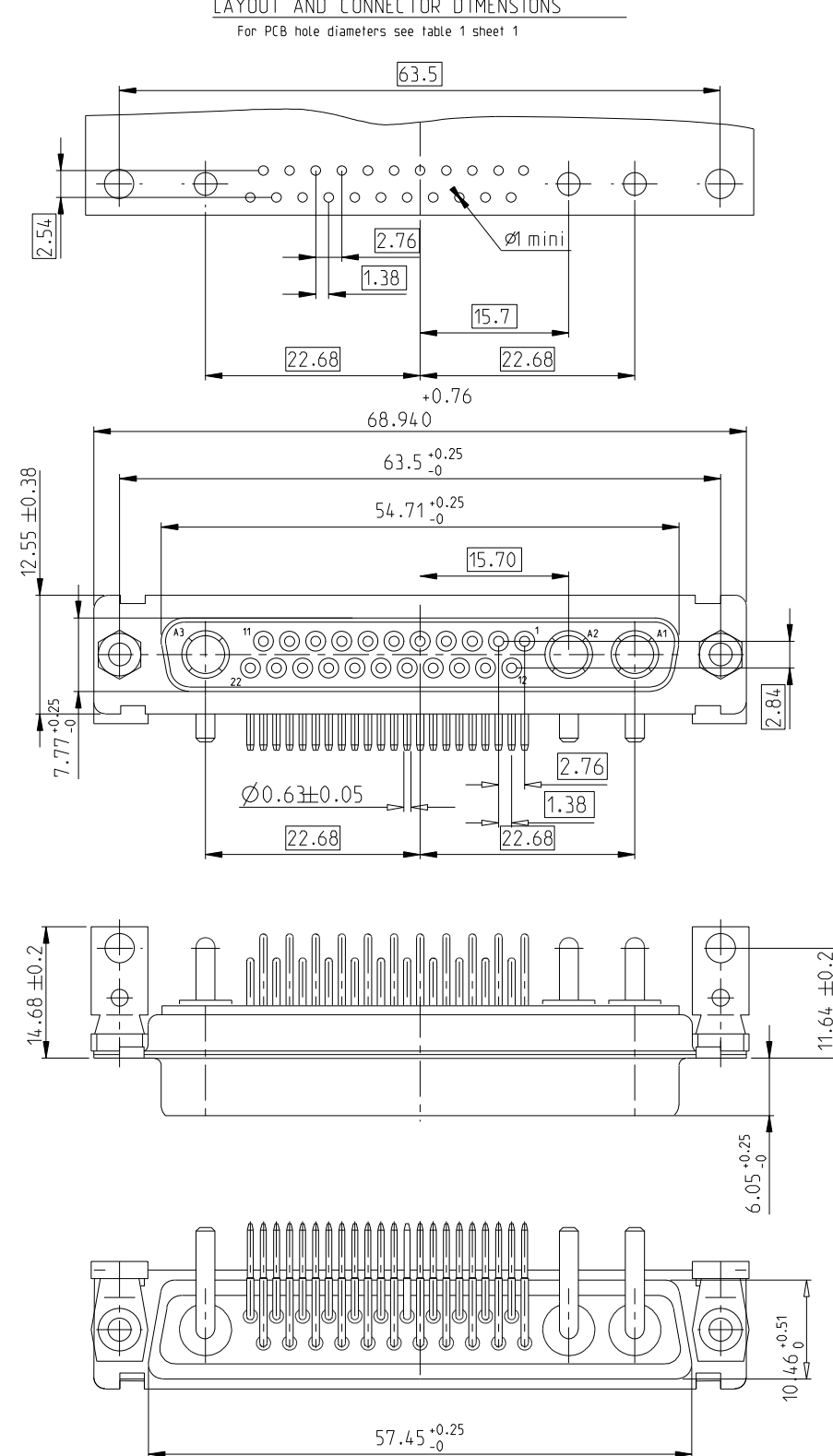
21W A4

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



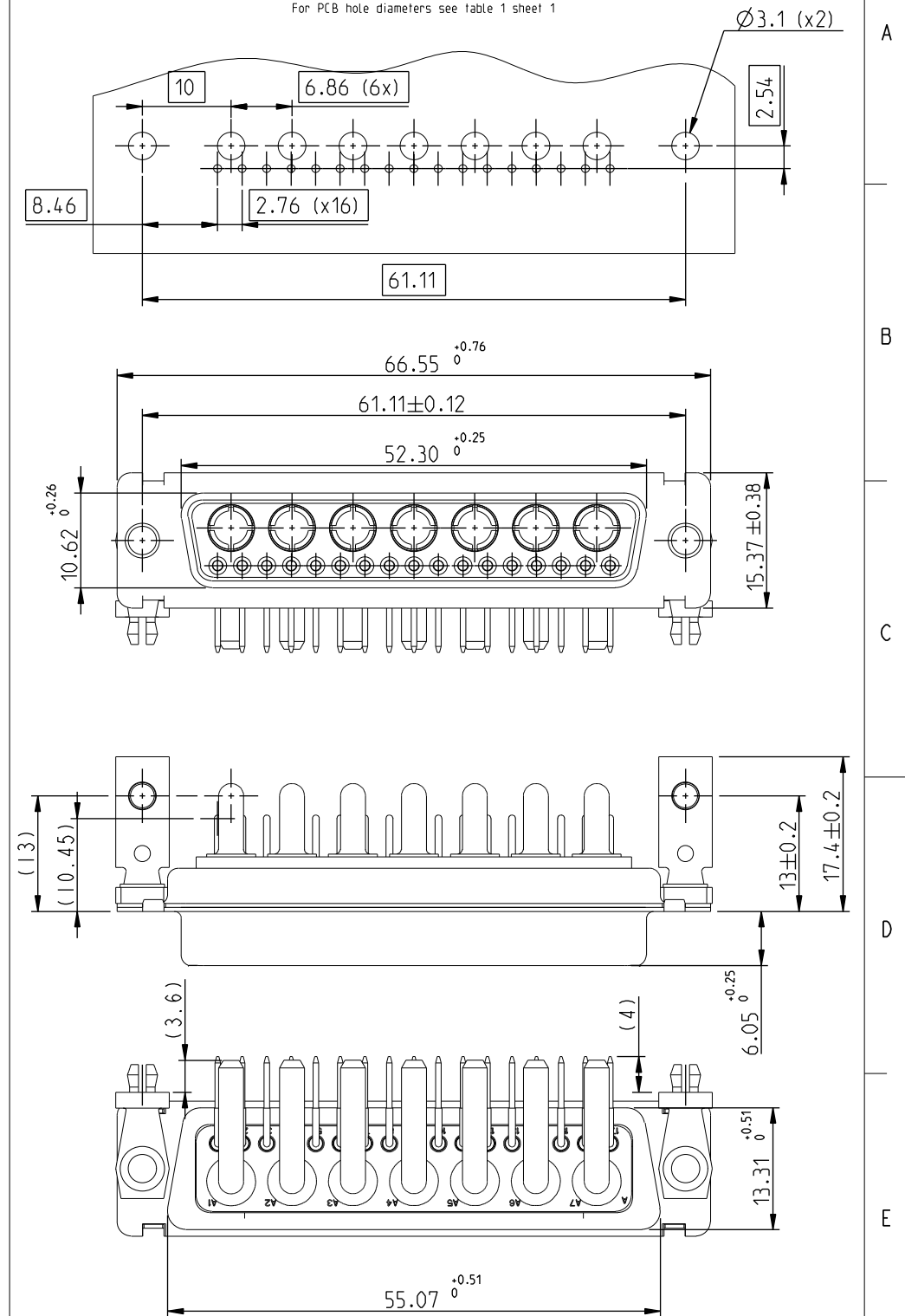
25W 3

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
Eng	P LEGARE	2005-10-11			0.XX	±0.1				2:1
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.
		mixed power right angled solder								E
		catalog no				-		CUSTOMER		sheet 7 of 7