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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

projection

mm

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

title SUB FEMALE DMW EUROPE

mixed power right angled solder

catalog no

dwg no C01-8639-2300

Rev. E

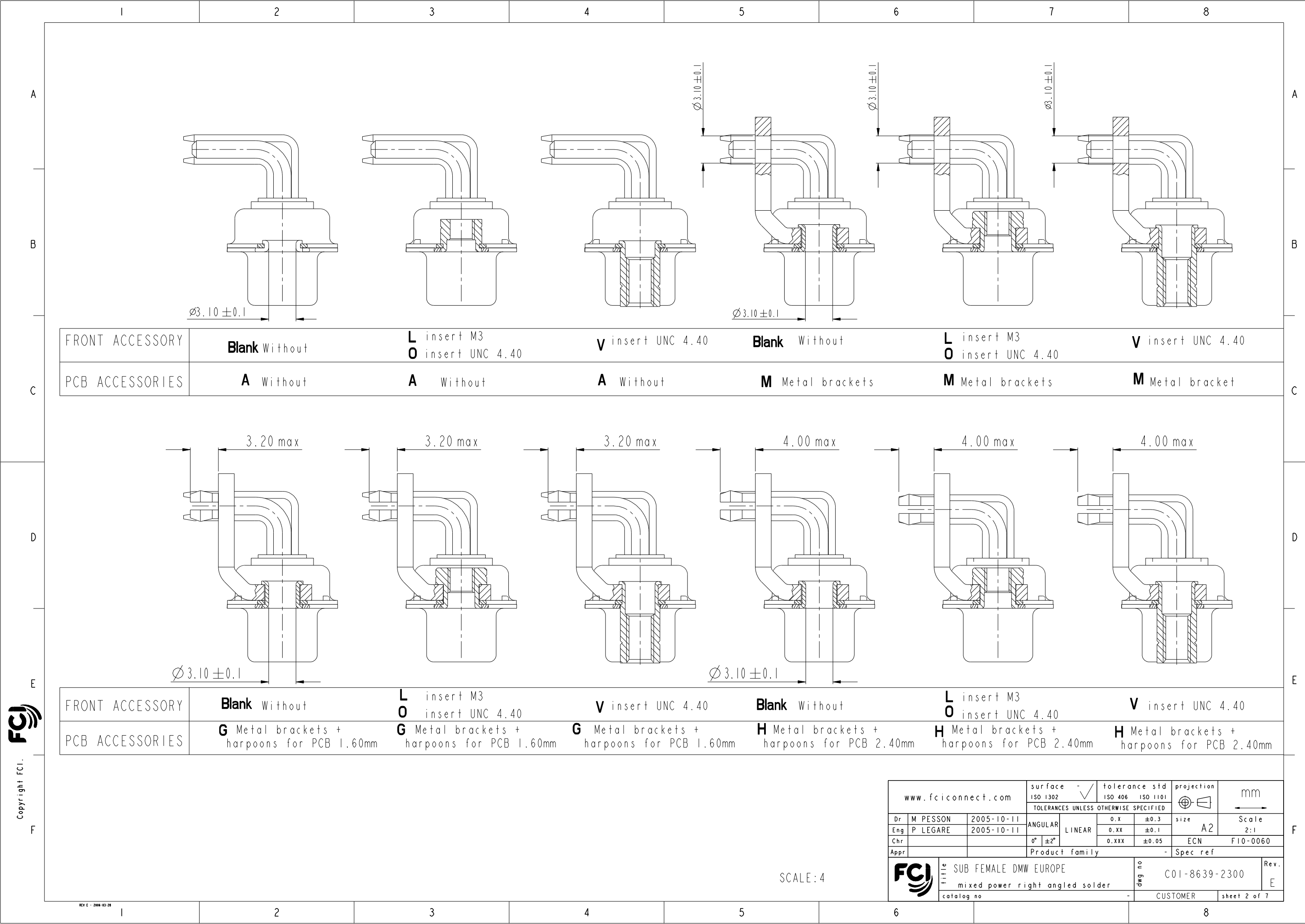
sheet 1 of 7

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
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REV E - 2006-03-28

SCALE: 4

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REV E - 2006-03-28 </td></tr><tr><td colspan="2">I</td><td colspan="2">2</td><td colspan="2">3</td><td colspan="2">4</td><td colspan="2">5</td><td colspan="2">6</td><td colspan="2">7</td><td colspan="2">8</td></tr></table>					PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES	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	F	<table><tr><th>PART NUMBER</th><th>AMPS</th><th>MATINGS/ UNMATINGS</th><th>FRONT ACCESSORY</th><th>PCB ACCESSORIES</th></tr><tr><td>D*xWxS543A40LF</td><td>40</td><td>500</td><td>without</td><td>without</td></tr><tr><td>D*LxWxS543A40LF</td><td>40</td><td>500</td><td>insert M3</td><td>without</td></tr><tr><td>D*OxWxS543A40LF</td><td>40</td><td>500</td><td>insert UNC 4.40</td><td>without</td></tr><tr><td>D*VxWxS543A40LF</td><td>40</td><td>500</td><td>female screw UNC 4.40</td><td>without</td></tr><tr><td>D*xWxS543H40LF</td><td>40</td><td>500</td><td>without</td><td>metal bracket+harpoon PCB 2.40mm</td></tr><tr><td>D*LxWxS543H40LF</td><td>40</td><td>500</td><td>insert M3</td><td>metal bracket+harpoon PCB 2.40mm</td></tr><tr><td>D*OxWxS543H40LF</td><td>40</td><td>500</td><td>insert UNC 4.40</td><td>metal bracket+harpoon PCB 2.40mm</td></tr><tr><td>D*VxWxS543H40LF</td><td>40</td><td>500</td><td>female screw UNC 4.40</td><td>metal bracket+harpoon PCB 2.40mm</td></tr><tr><td>D*xWxS543G40LF</td><td>40</td><td>500</td><td>without</td><td>metal bracket+harpoon PCB 1.60mm</td></tr></table>					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	<table><tr><th>PART NUMBER</th><th>AMPS</th><th>MATINGS/ UNMATINGS</th><th>FRONT ACCESSORY</th><th>PCB ACCESSORIES</th></tr><tr><td>D*LxWxS543G40LF</td><td>40</td><td>500</td><td>insert M3</td><td>metal bracket+harpoon PCB 1.60mm</td></tr><tr><td>D*OxWxS543G40LF</td><td>40</td><td>500</td><td>insert UNC 4.40</td><td>metal bracket+harpoon PCB 1.60mm</td></tr><tr><td>D*VxWxS543G40LF</td><td>40</td><td>500</td><td>female screw UNC 4.40</td><td>metal bracket+harpoon PCB 1.60mm</td></tr><tr><td>D*xWxS543M40LF</td><td>40</td><td>500</td><td>without</td><td>metal bracket</td></tr><tr><td>D*LxWxS543M40LF</td><td>40</td><td>500</td><td>insert M3</td><td>metal bracket</td></tr><tr><td>D*OxWxS543M40LF</td><td>40</td><td>500</td><td>insert UNC 4.40</td><td>metal bracket</td></tr><tr><td>D*VxWxS543M40LF</td><td>40</td><td>500</td><td>female screw UNC 4.40</td><td>metal bracket</td></tr></table>					PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES	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	FCI Copyright FCI. 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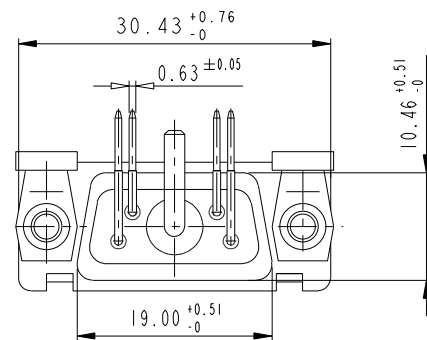
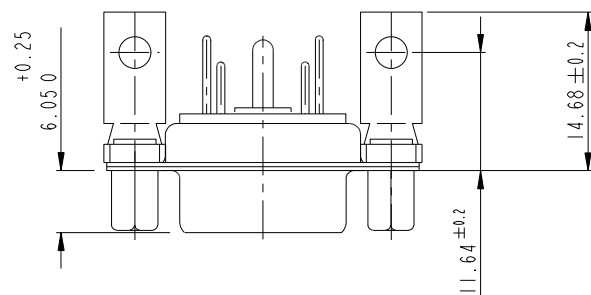
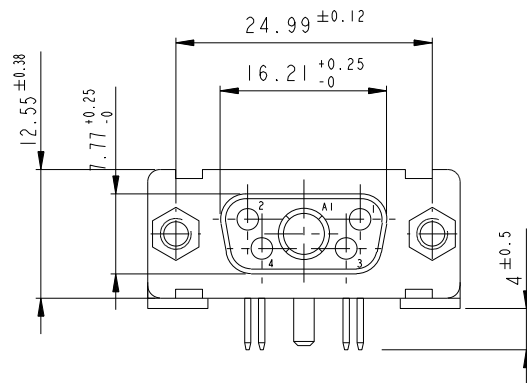
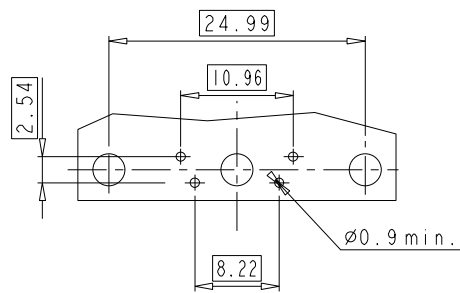
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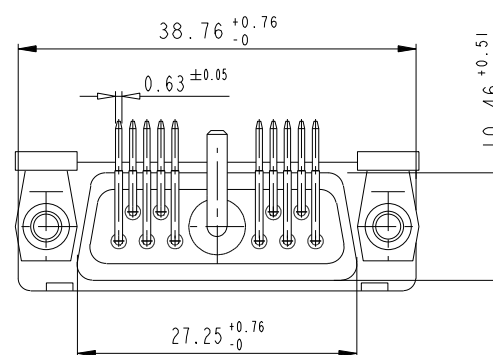
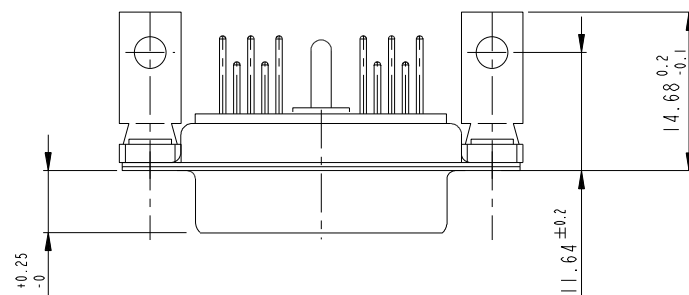
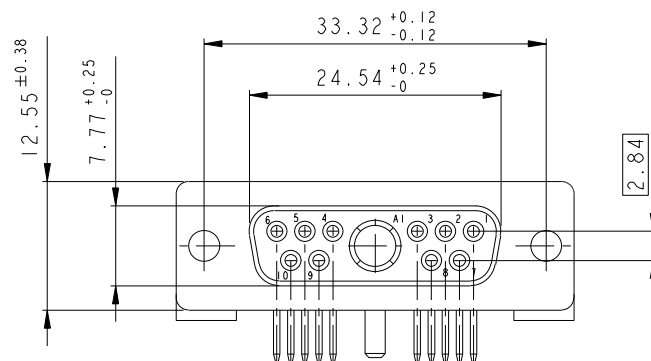
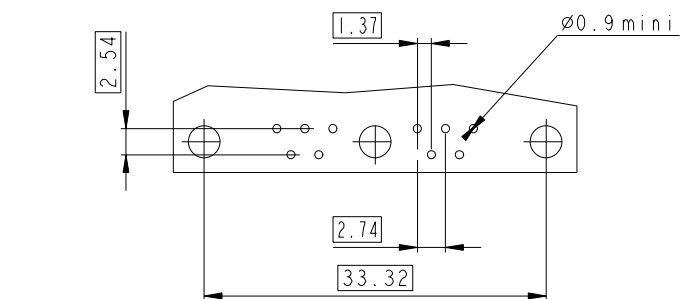
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			TOLERANCES UNLESS OTHERWISE SPECIFIED									
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Eng	P LEGARE	2005-10-11			0.XX ±0.1							
Chr			0° ±2°		0.XXX ±0.05		ECN		F10-0060			
Appr			Product family					-		Spec ref		
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			catalog no -					CUSTOMER			sheet 3 of 7	

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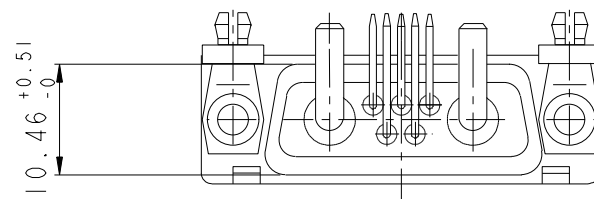
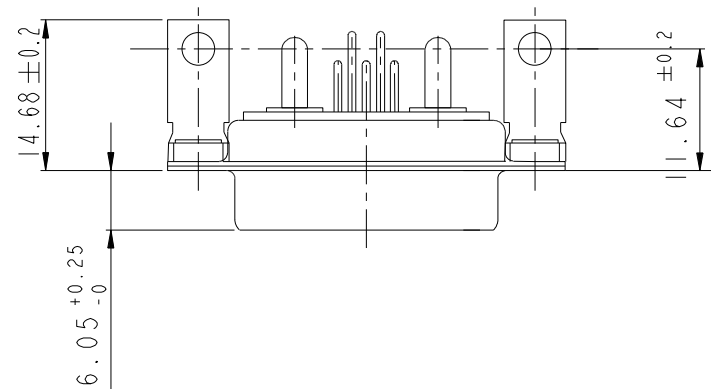
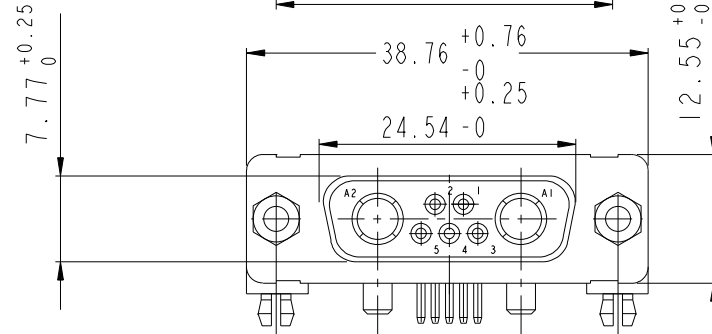
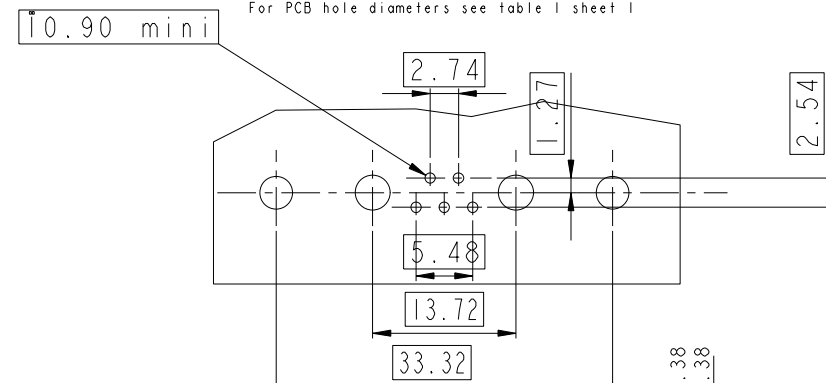
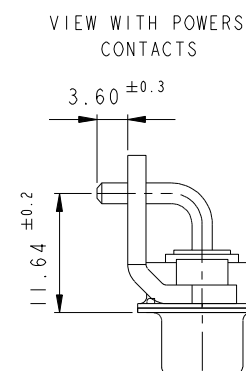
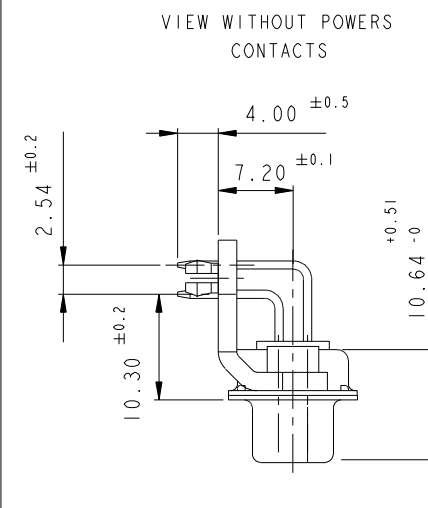
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I

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 ISIDE VIEW FOR ALL LAYOUTS
(except size D)

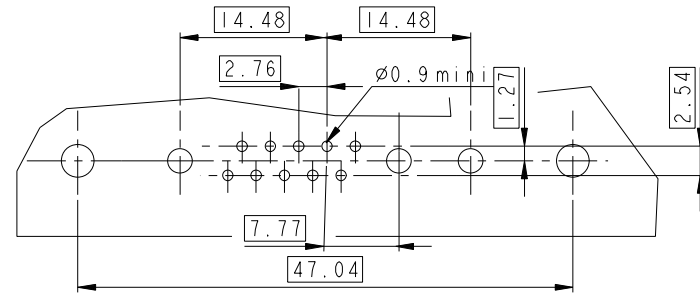
Copyright FCI.

REV E - 2006-03-28

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

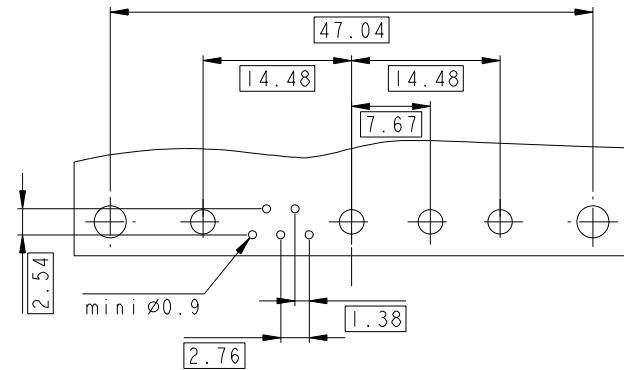
13W3

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



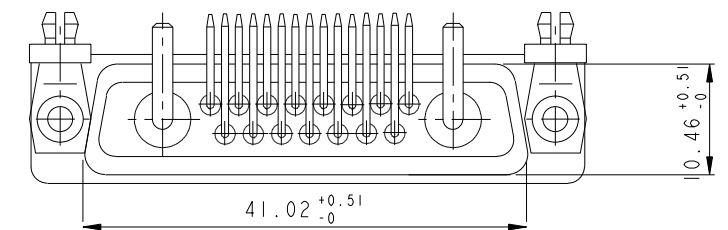
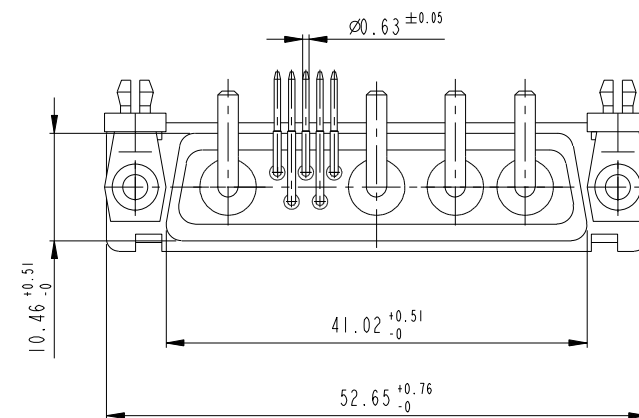
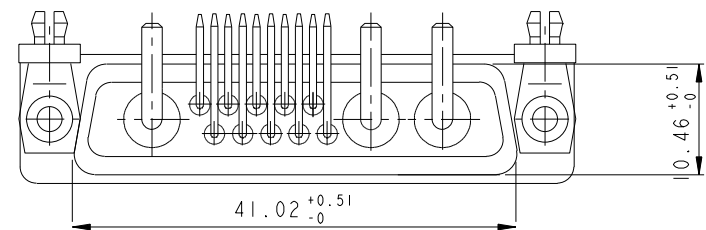
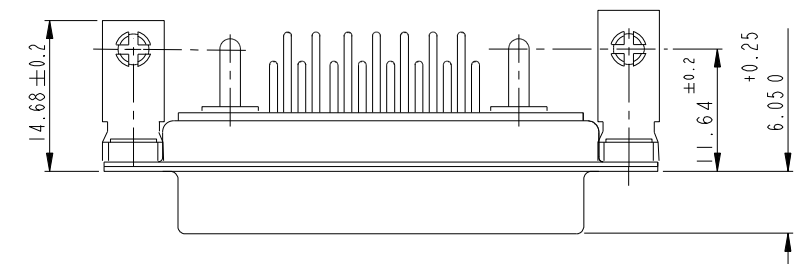
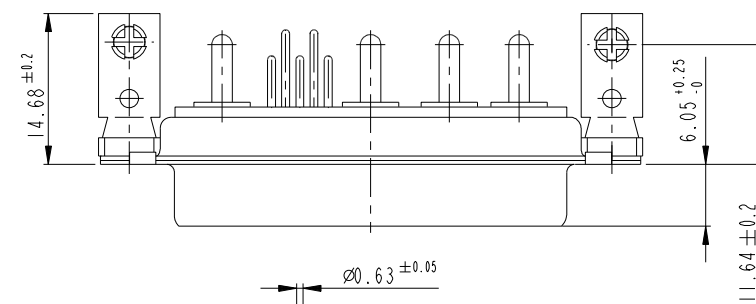
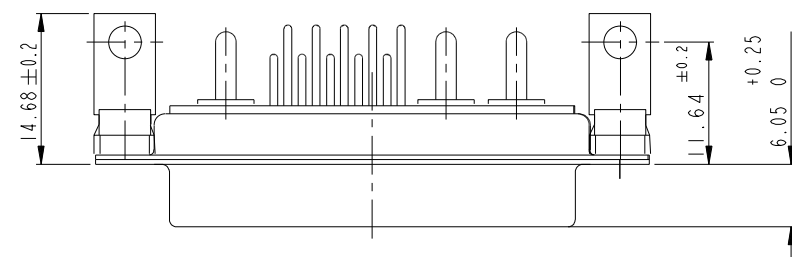
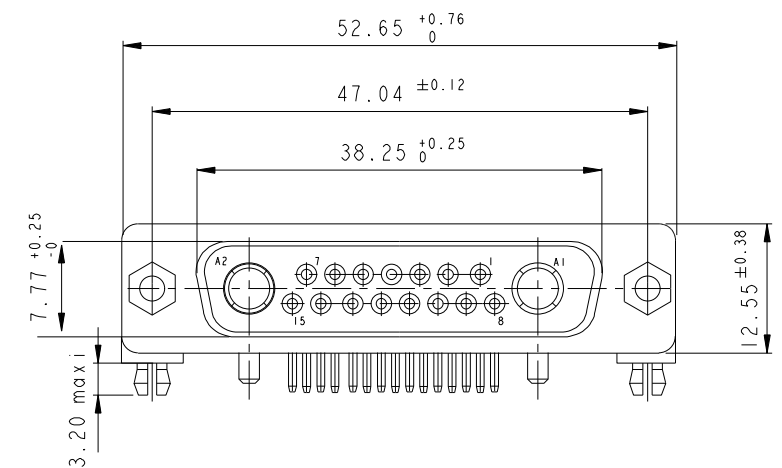
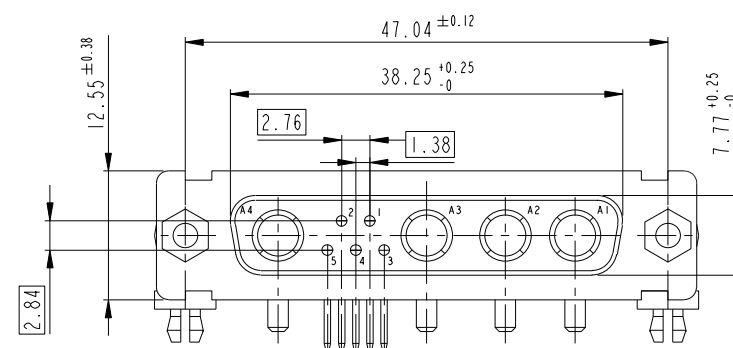
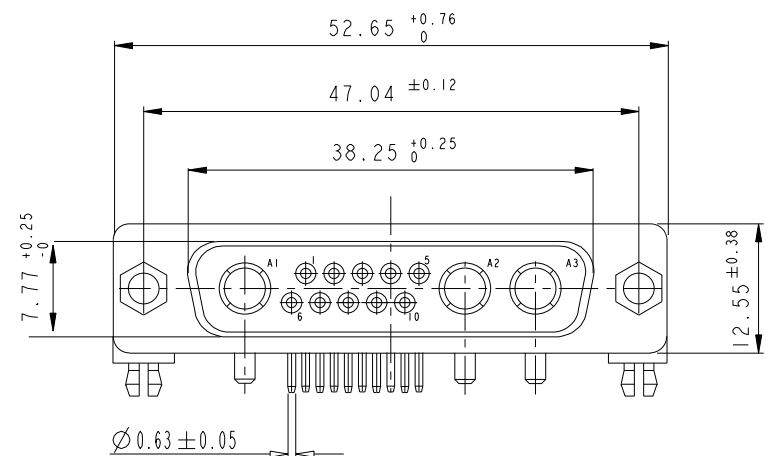
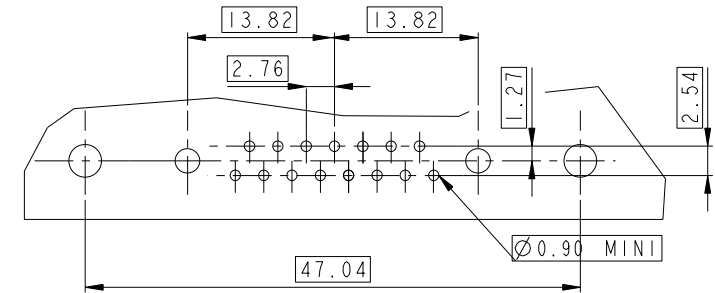
9W4

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	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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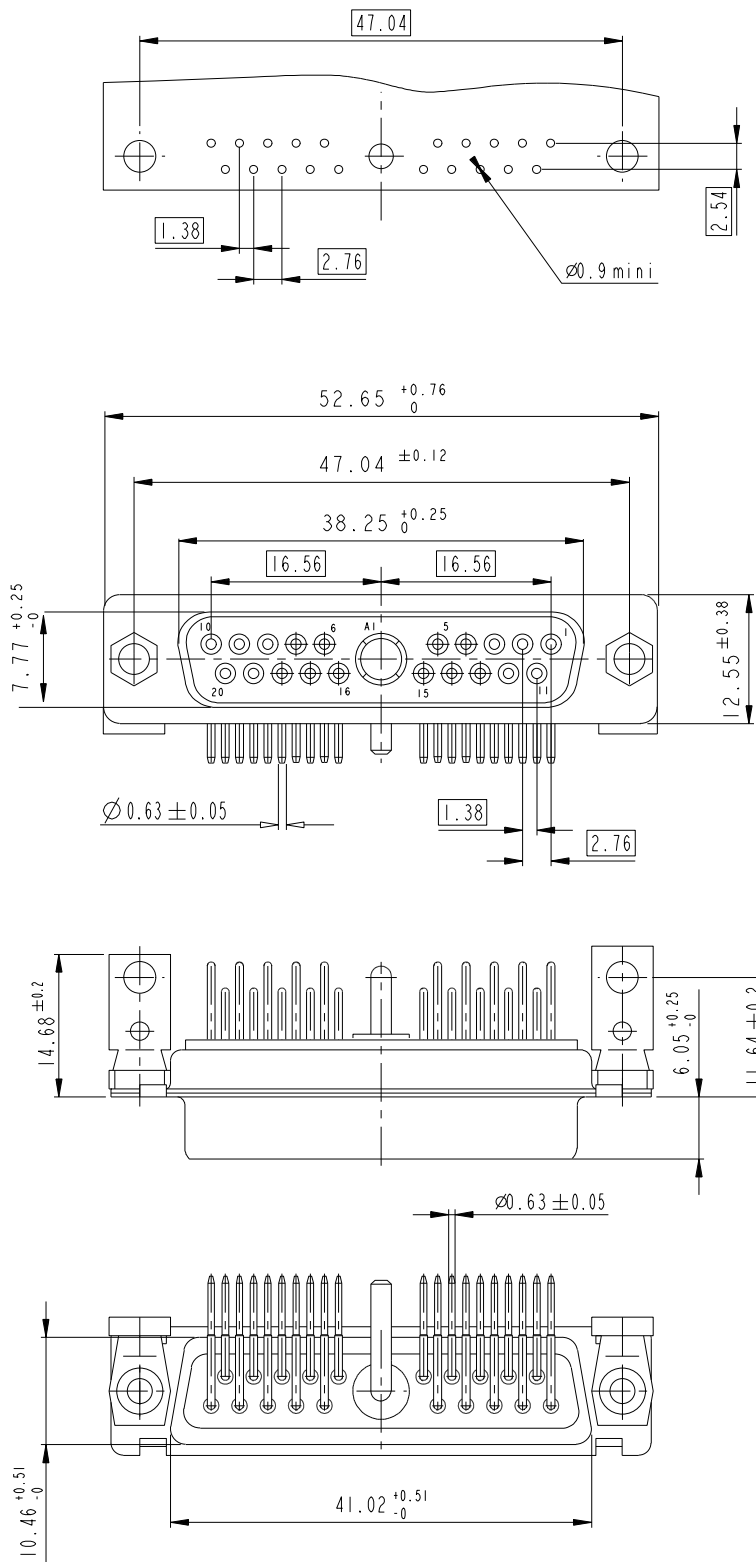
7

8

21W1

LAYOUT AND CONNECTOR DIMENSIONS

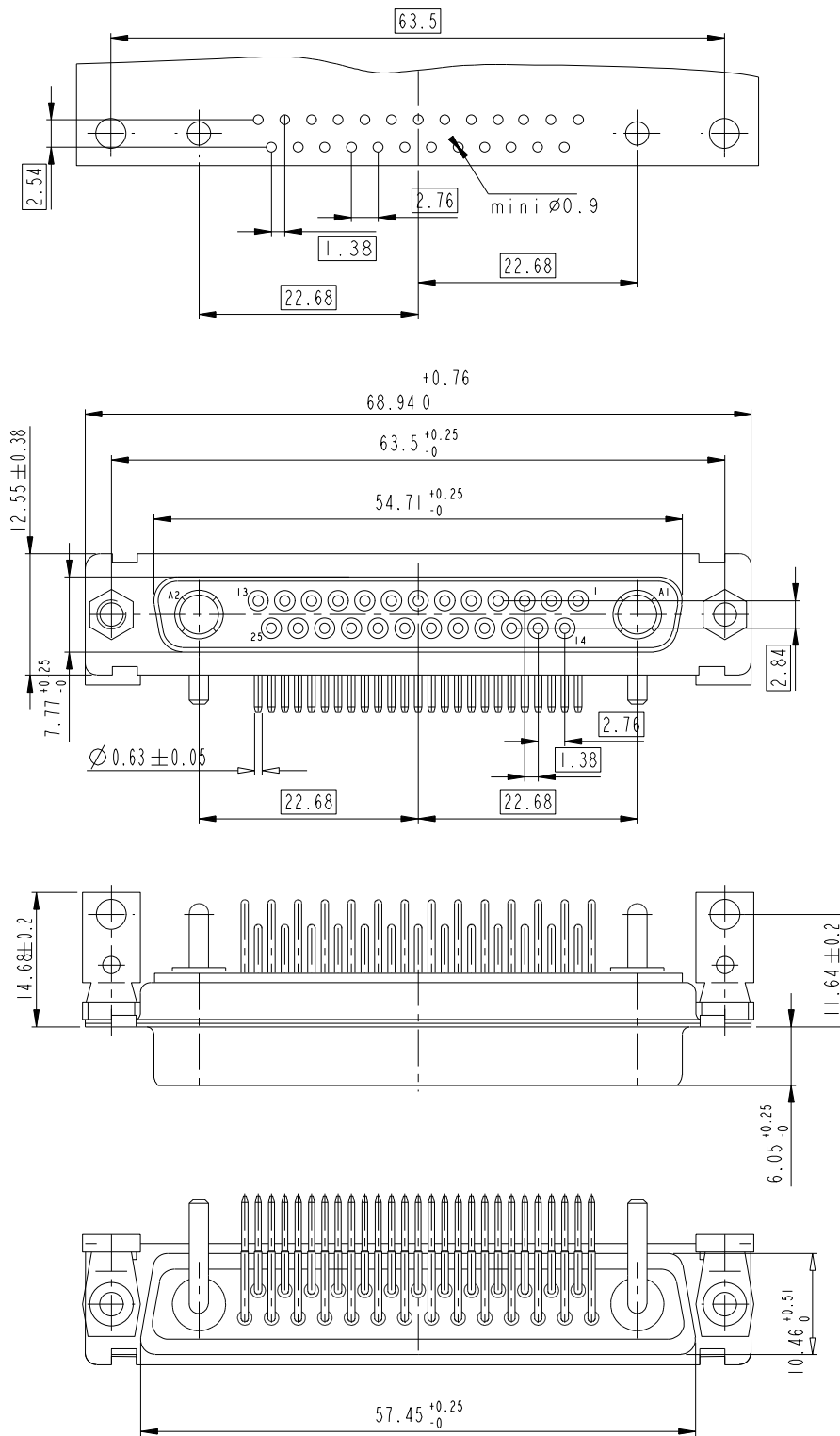
For PCB hole diameters see table I sheet I



27W2

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I



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2

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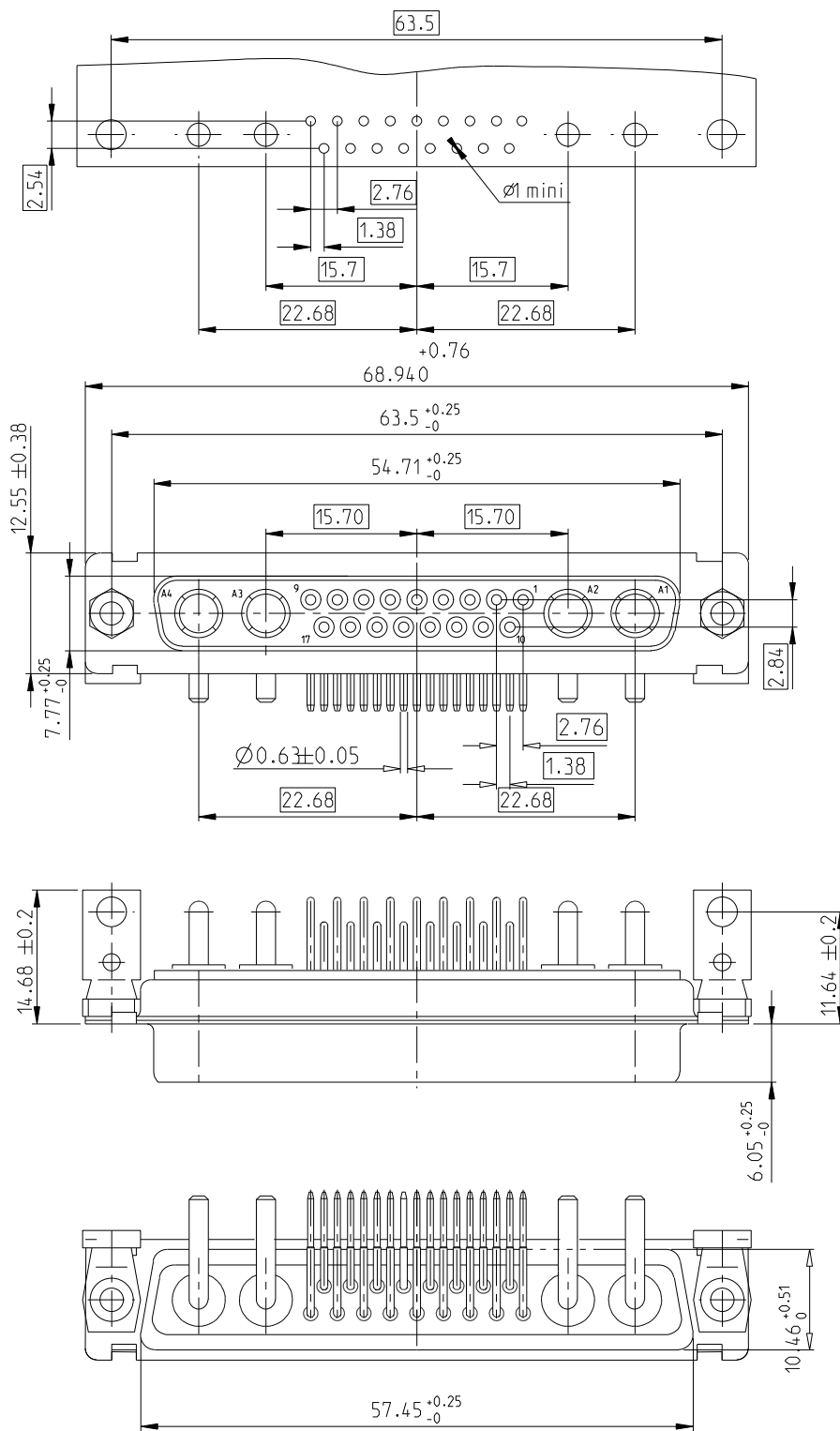
8

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

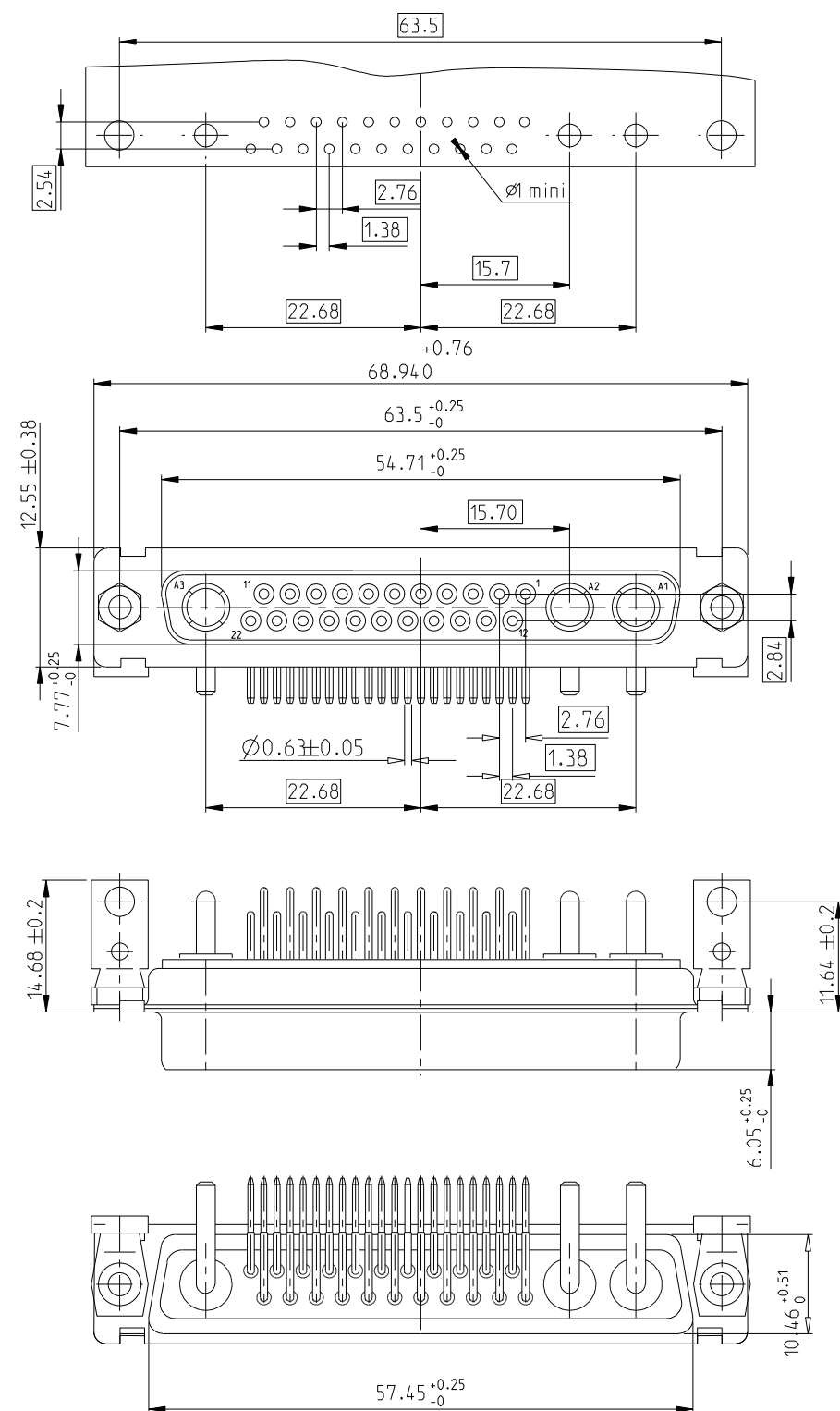
For PCB hole diameters see table 1 sheet 1



25W 3

LAYOUT AND CONNECTOR DIMENSIONS

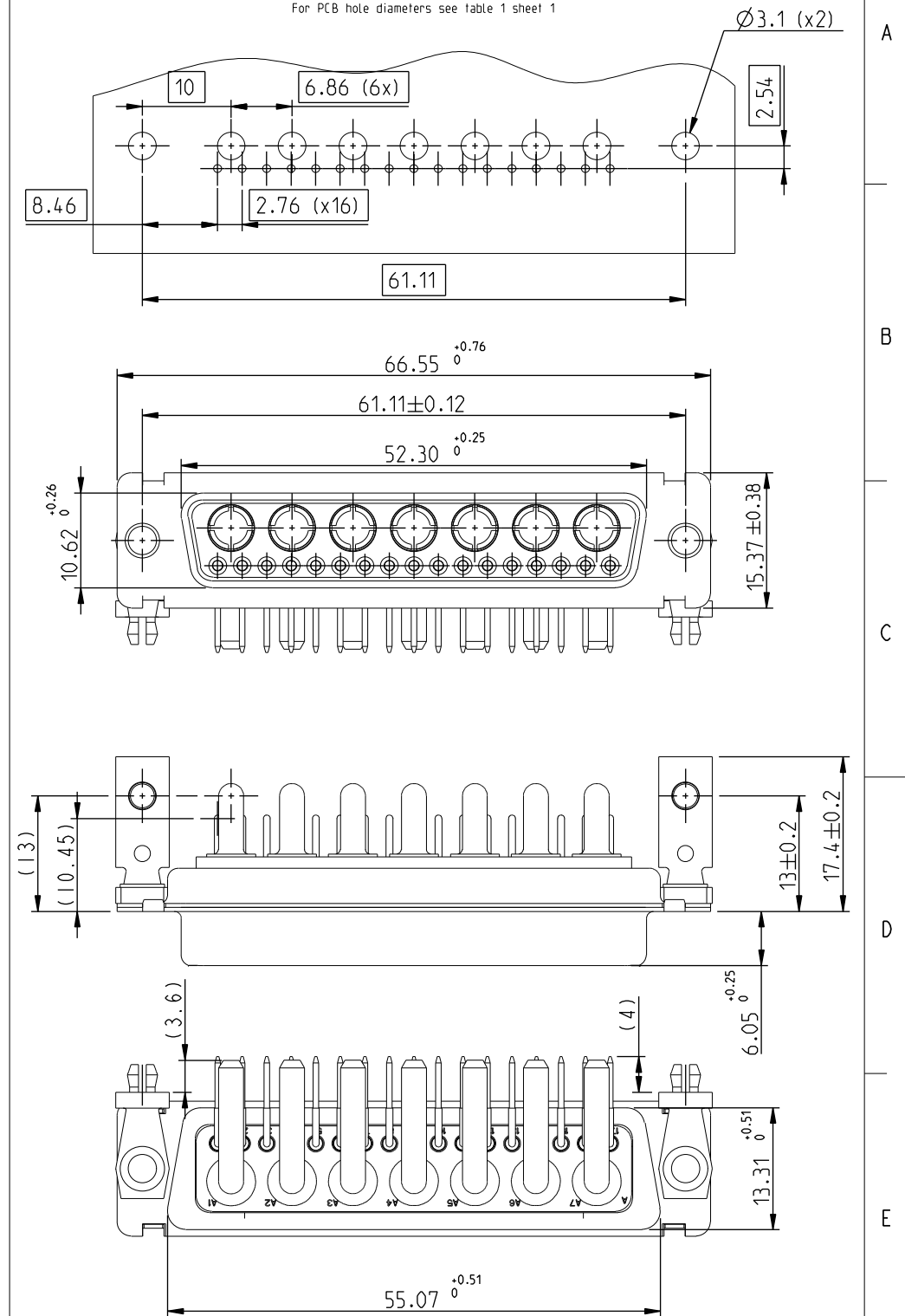
For PCB hole diameters see table 1 sheet 1



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