

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 507)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOPLASTIC UL94V0
-CONTACT MATERIAL: BRASS (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

- CLIMATIC CATEGORY: 55/125/21

TEMPERATURE RANGE -55°C TO +125°C
DAMP HEAT STEADY STATE 21 DAYS
SALT SPRAY 48 HOURS

- 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 7.5µm,pure bright
- Active area plating spec:
 - Signal and power contacts: Ni + Gold
- Shell plating :2 to 4µm Cu + Ni + 3 to 10µm Sn,pure bright
- Accessories: Sn pure bright + nickel
- Packaging spec: See GS-14-920

DBL13W3P500G30LF

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

P Pin

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

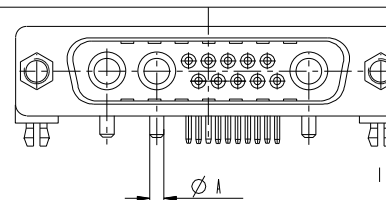
00 :Not fitted with power contact (signal contacts always fitted)

30 :Fitted with power contacts 30 Amp.

40 :Fitted with power contacts 40 Amp.

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 $\begin{smallmatrix} +0.1 \\ 0 \end{smallmatrix}$	PCB HOLE $\begin{smallmatrix} +/ -0.1 \end{smallmatrix}$	PCB HOLE $\begin{smallmatrix} +/ -0.1 \end{smallmatrix}$	PCB HOLE



13W3 FOR EXAMPLE

www.fciconnect.com		surface	tolerance std	projection	mm
		ISO 1302	ISO 406 ISO 1101	mm	
		TOLERANCES UNLESS OTHERWISE SPECIFIED			
Dr	M PESSON	2005-10-11	ANGULAR	0.X	±0.3
Eng	P LEGARE	2005-10-11	LINEAR	0.XX	±0.1
Chr				0.XXX	±0.05
Appr			Product family		Spec ref
		size		A2	Scale 2:1
		ECN		F09-0092	

rev	ecn no	dr	date
A	L505-0101	MPE	2005-10-11
B	L506-0208	LGO	2006-12-12
C	L507-0273	MPE	2007/10/31
D	F09-0092	LSA	2009/09/16
-	-	-	-
-	-	-	-
-	-	-	-

SUB MALE DW EUROPE foot print		ang no	C01-8639-2304	Rev.	D
mixed power right angled solder		CUSTOMER		Sheet 1 of 7	

PDM-REV:D

STATUS Released

Printed: Apr 28, 2015

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP500A30LF	30	200	without	without
D*LxWxP500A30LF	30	200	insert M3	without
D*OxWxP500A30LF	30	200	insert UNC 4.40	without
D*VxWxP500A30LF	30	200	female screw UNC 4.40	without
D*xWxP500H30LF	30	200	without	metal bracket+harpoon PCB 2.40mm
D*LxWxP500H30LF	30	200	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxP500H30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxP500H30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxP500G30LF	30	200	without	metal bracket+harpoon PCB 1.60mm
D*LxWxP500G30LF	30	200	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxP500G30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxP500G30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxP500M30LF	30	200	without	metal bracket
D*LxWxP500M30LF	30	200	insert M3	metal bracket
D*OxWxP500M30LF	30	200	insert UNC 4.40	metal bracket
D*VxWxP500M30LF	30	200	female screw UNC 4.40	metal bracket

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP500A40LF	40	200	without	without
D*LxWxP500A40LF	40	200	insert M3	without
D*OxWxP500A40LF	40	200	insert UNC 4.40	without
D*VxWxP500A40LF	40	200	female screw UNC 4.40	without
D*xWxP500H40LF	40	200	without	metal bracket+harpoon PCB 2.40mm
D*LxWxP500H40LF	40	200	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxP500H40LF	40	200	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxP500H40LF	40	200	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxP500G40LF	40	200	without	metal bracket+harpoon PCB 1.60mm
D*LxWxP500G40LF	40	200	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxP500G40LF	40	200	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxP500G40LF	40	200	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxP500M40LF	40	200	without	metal bracket
D*LxWxP500M40LF	40	200	insert M3	metal bracket
D*OxWxP500M40LF	40	200	insert UNC 4.40	metal bracket
D*VxWxP500M40LF	40	200	female screw UNC 4.40	metal bracket

shell size LAYOUTS
* xWxE 5W1
A 11W1
A 7W2
B 21W1
B 17W2
B 13W3
B 9W4
C 25W3
C 21WA4
C 27W2

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP543A30LF	30	500	without	without
D*LxWxP543A30LF	30	500	insert M3	without
D*OxWxP543A30LF	30	500	insert UNC 4.40	without
D*VxWxP543A30LF	30	500	female screw UNC 4.40	without
D*xWxP543H30LF	30	500	without	metal bracket+harpoon PCB 2.40mm
D*LxWxP543H30LF	30	500	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxP543H30LF	30	500	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxP543H30LF	30	500	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxP543G30LF	30	500	without	metal bracket+harpoon PCB 1.60mm
D*LxWxP543G30LF	30	500	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxP543G30LF	30	500	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxP543G30LF	30	500	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxP543M30LF	30	500	without	metal bracket
D*LxWxP543M30LF	30	500	insert M3	metal bracket
D*OxWxP543M30LF	30	500	insert UNC 4.40	metal bracket
D*VxWxP543M30LF	30	500	female screw UNC 4.40	metal bracket

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP543A40LF	40	500	without	without
D*LxWxP543A40LF	40	500	insert M3	without
D*OxWxP543A40LF	40	500	insert UNC 4.40	without
D*VxWxP543A40LF	40	500	female screw UNC 4.40	without
D*xWxP543H40LF	40	500	without	metal bracket+harpoon PCB 2.40mm
D*LxWxP543H40LF	40	500	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxP543H40LF	40	500	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxP543H40LF	40	500	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxP543G40LF	40	500	without	metal bracket+harpoon PCB 1.60mm
D*LxWxP543G40LF	40	500	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxP543G40LF	40	500	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxP543G40LF	40	500	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxP543M40LF	40	500	without	metal bracket
D*LxWxP543M40LF	40	500	insert M3	metal bracket
D*OxWxP543M40LF	40	500	insert UNC 4.40	metal bracket
D*VxWxP543M40LF	40	500	female screw UNC 4.40	metal bracket

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		size	Scale
Eng	P LEGARE	2005-10-11	LINEAR		A2	2:1
Chr			0° ±2°		ECN	F09-0092
Appr			Product family		Spec ref	

FCI		SUB MALE DW EUROPE foot print mixed power right angled solder		Part no C01-8639-2304	Rev. D
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5W1

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

A

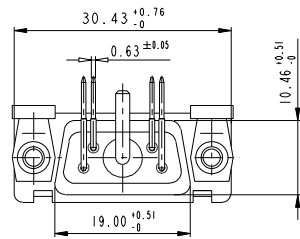
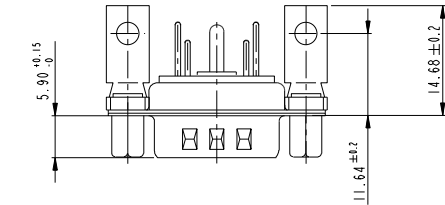
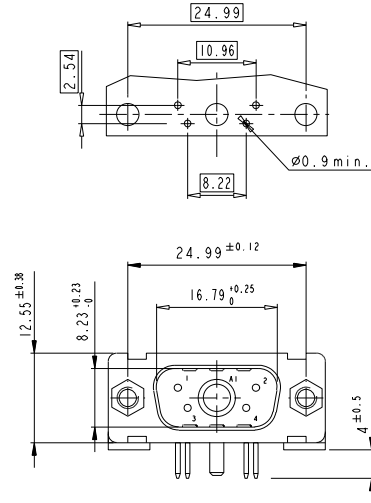
B

C

D

E

F



Floating signal contacts

REV 1 - 2005-03-28

11W1

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

A

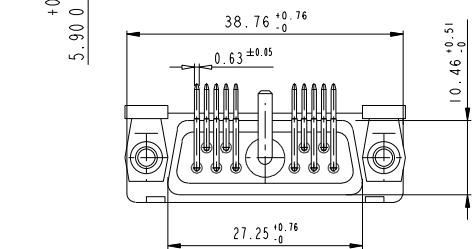
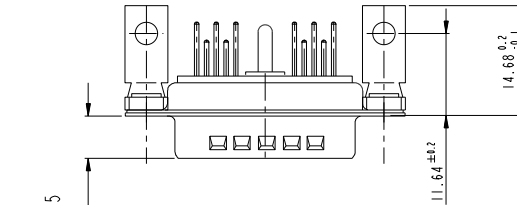
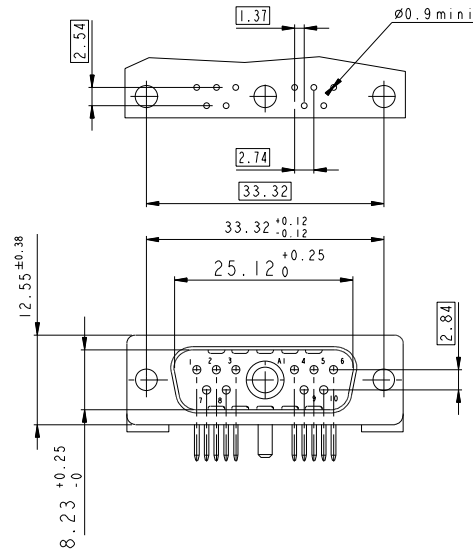
B

C

D

E

F



7W2

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

A

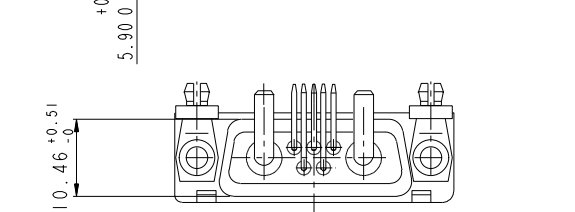
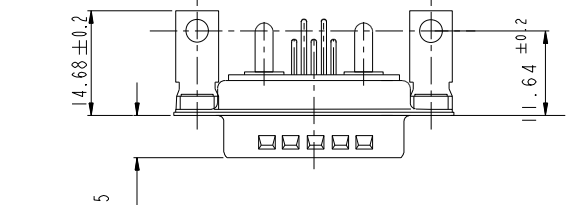
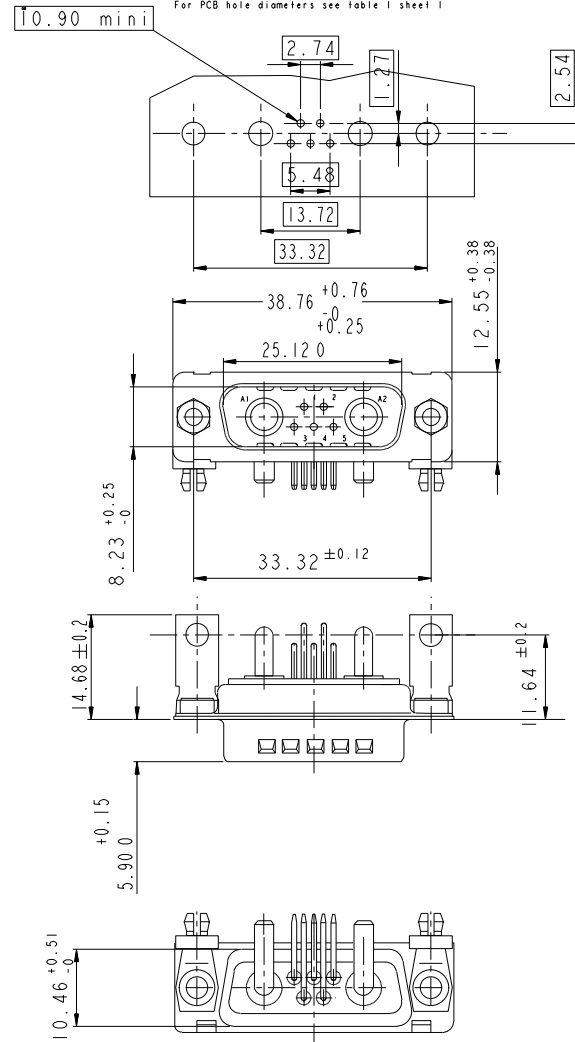
B

C

D

E

F



SIDE VIEW FOR ALL LAYOUTS

A

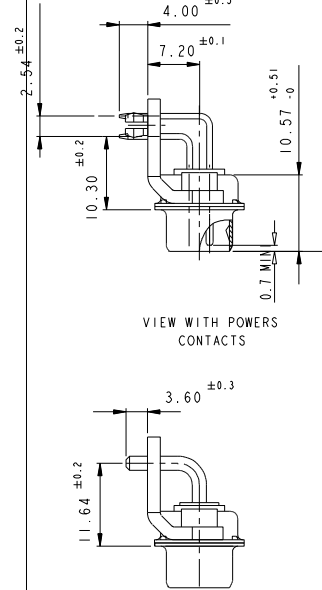
B

C

D

E

F



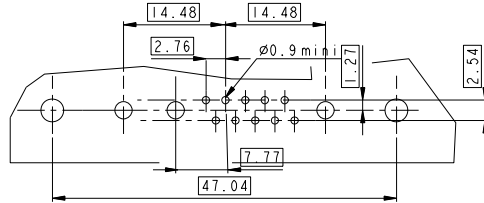
www.fciconnect.com		surface ISO 1302	tolerance std ISO 406 ISO 1101	projection mm	mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED		size A2	Scale 2:1
Dr	M PESSON	2005-10-11	ANGULAR	0.X	±0.3
Eng	P LEGARE	2005-10-11	LINEAR	0.XX	±0.1
Chr				0.XXX	±0.05
Appr			Product family	Spec ref	ECN F09-0092

FCI		title SUB MALE DW EUROPE foot print mixed power right angled solder	eng no C01-8639-2304	Rev. D
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PDM-REV-D STATUS Released Printed: Apr 28, 2015

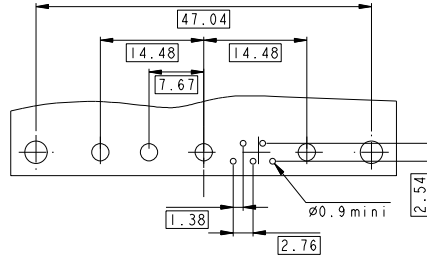
13W3

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



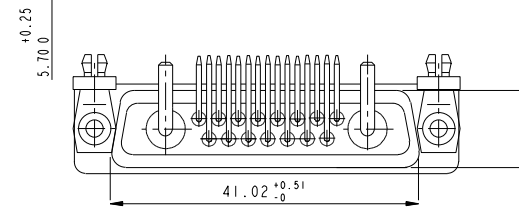
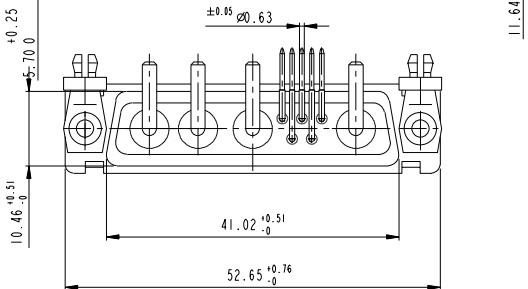
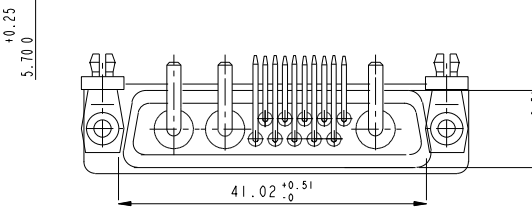
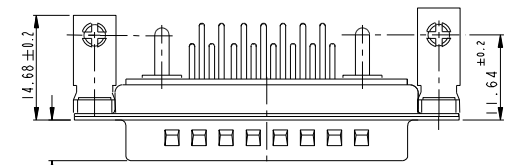
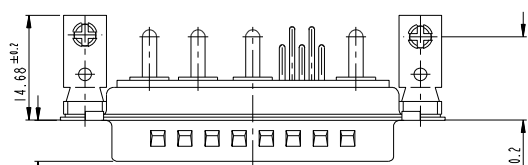
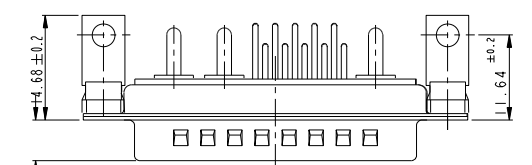
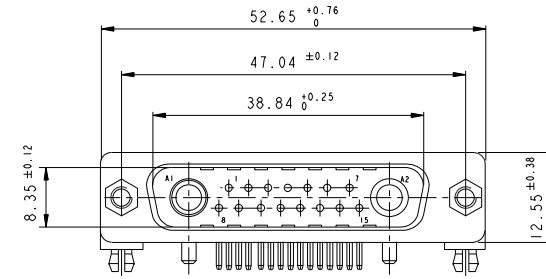
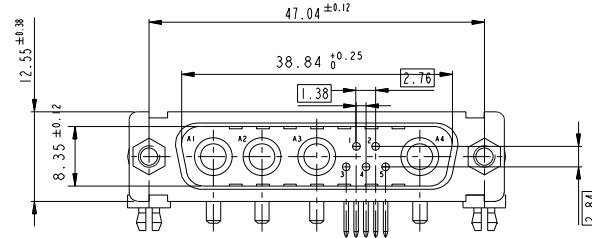
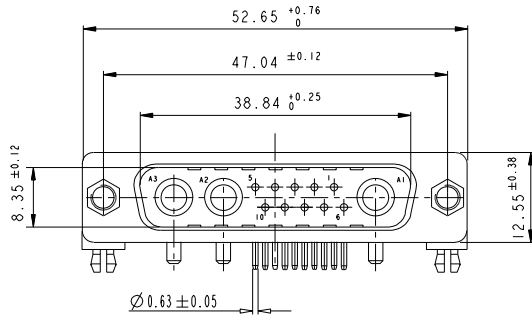
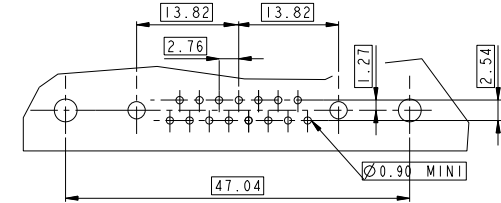
9W4

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



17W2

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



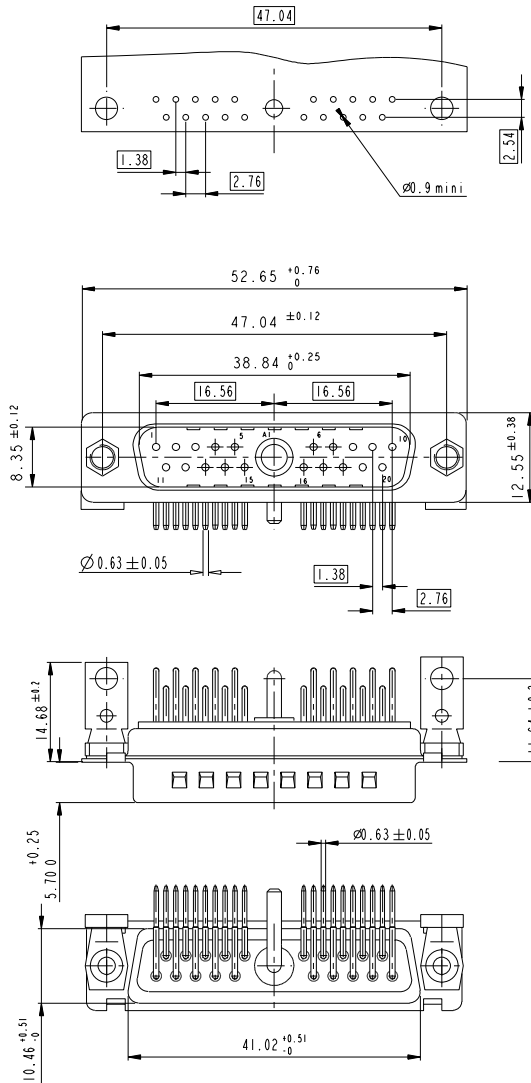
Floating signal contacts

www.fciconnect.com		surface	ISO 1302	tolerance std	ISO 406	ISO 1101	projection	mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED					size	Scale
Dr	M PESSON	2005-10-11	ANGULAR	0.X	±0.3	±0.1		
Eng	P LEGARE	2005-10-11	LINEAR	0.XX	±0.1	±0.05	A2	2:1
Chr			0° ±2°	0.XXX	±0.05		ECN	F09-0092
Appr			Product family				Spec ref	

FCI		title	SUB MALE DW EUROPE foot print	eng no	C01-8639-2304	Rev.	D
		description	mixed power right angled solder	CUSTOMER		Sheet 5 of 7	

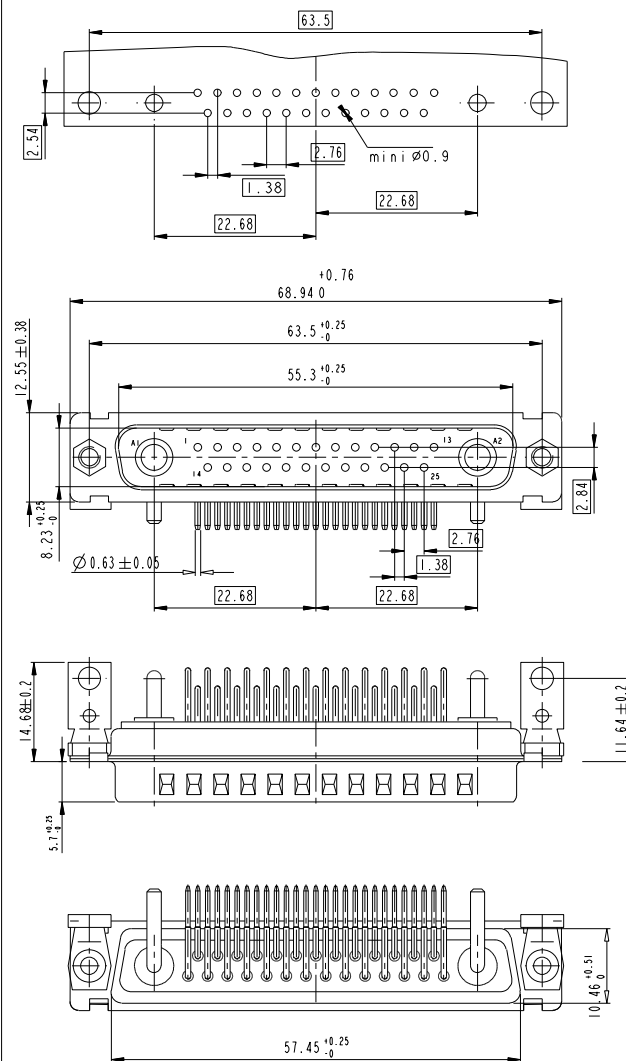
21W1

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



27W2

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



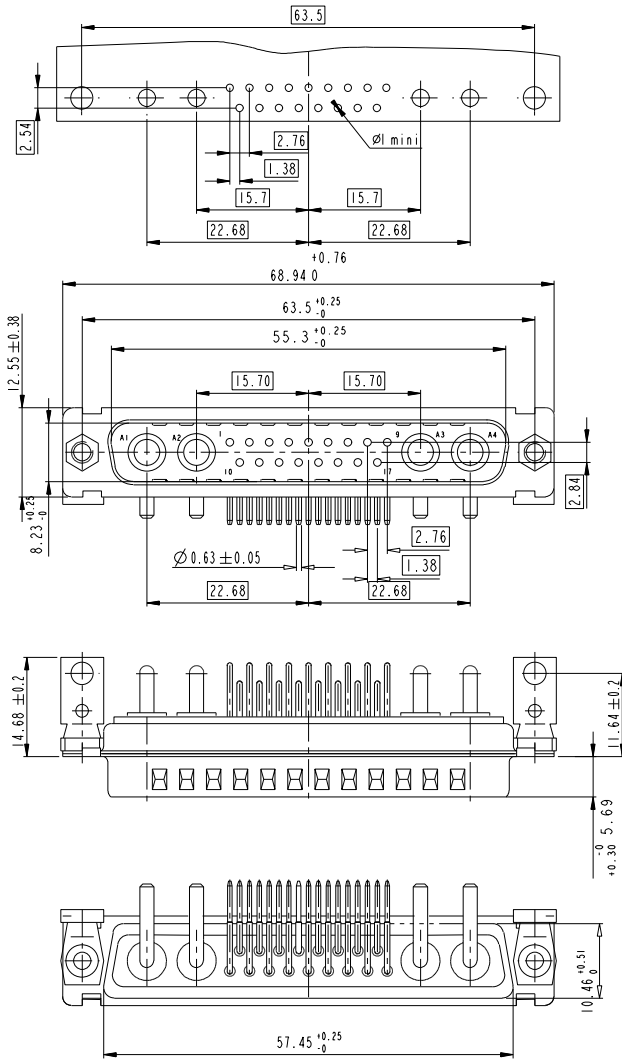
www.fciconnect.com			surface 		tolerance std ISO 1302 ISO 406 ISO 1101		projection 			
			TOLERANCES UNLESS OTHERWISE SPECIFIED							
Dr	M PESSON	2005-10-11	ANGULAR	LINEAR	0.x	±0.3		size A2	Scale 2:1	
Eng	P LEGARE	2005-10-11			0.xx	±0.1				
Chr					0.xxx	±0.05				
Appr			Product family				-	Spec ref		
							ECN	F09-0092		

FCI		SUB MALE DW EUROPE foot print		eng no	C01-8639-2304	Rev.	D
mixed power right angled solder				CUSTOMER		Printed: Jun 19, 2015	

21WA4

LAYOUT AND CONNECTOR DIMENSIONS

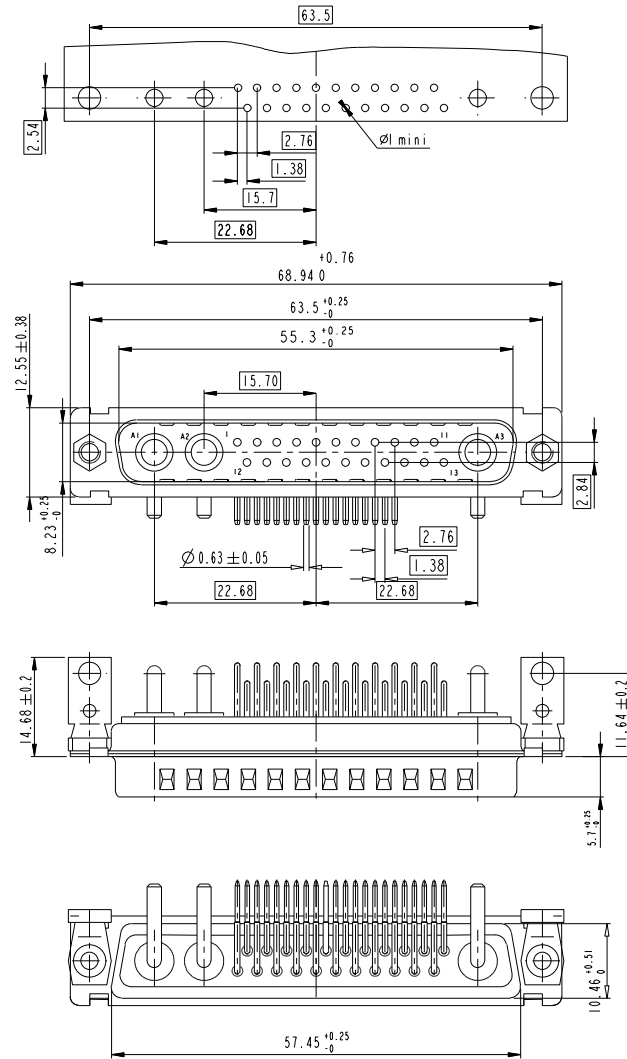
For PCB hole diameters see table I sheet I



25W3

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I



www.fciconnect.com		surface ISO 1302	tolerance std ISO 406 ISO 1101	projection mm	mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED			
Dr	M PESSON	2005-10-11	ANGULAR	0.X	±0.3
Eng	P LEGARE	2005-10-11	LINEAR	0.XX	±0.1
Chr				0.XXX	±0.05
Appr			Product family	-	Spec ref

Title		SUB MALE DW EUROPE foot print		C01-8639-2304		Rev.
Description		mixed power right angled solder		CUSTOMER		D
Drawing no		C01-8639-2304		Sheet 7 of 7		