

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 (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

Series

DBL13W3P700G30LF

Shell size: **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 sheets)

Contacts

P :Pin

Termination type

7 Right angle/USA

Plating

00 200 matings/unmatings
43 500 matings/unmatings

PCB accessories definition
see sheet 2

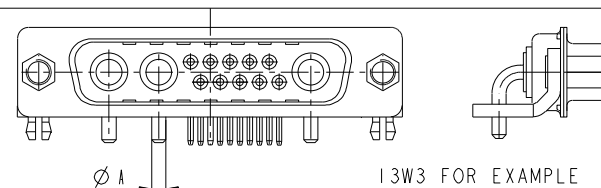
A :without accessory
H :Metal brackets+harpoons for PCB 2.40mm
G :Metal brackets+harpoons for PCB 1.60mm
M :Metal brackets

Power contacts

00 :Not fitted with power contact (signal contacts always fitted)
30 :Fitted with power contacts 30 Amp.

TABLE 1:PCB HOLE DIAMETERS

POWER CONTACTS		ACCESSORIES		SIGNAL CONTACTS
30 A	2.00	Ø2.40	Ø3.10	Ø0.90 min
Max current power	ØA ^{+0.1} ₀	PCB HOLE +/-0.1	PCB HOLE +/-0.1	PCB HOLE +/-0.1



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	0.X	±0.3
Eng	P LEGARE	2005-10-11	LINEAR	0.XX	±0.1
Chr				0.XXX	±0.05
Appr			Product family	ECN	F09-0092
				Spec ref	

rev	ecn no	dr	date	title	sub	male	dw	us	foot print	ang no	customer	sheet 1 of 6
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									

PDM: Rev: D

STATUS: Released

Printed: Apr 28, 2015

A

B

C

D

E

F

A

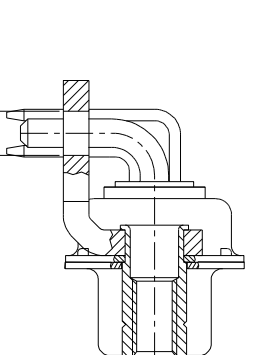
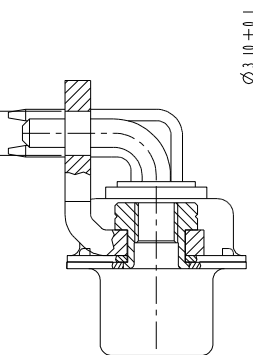
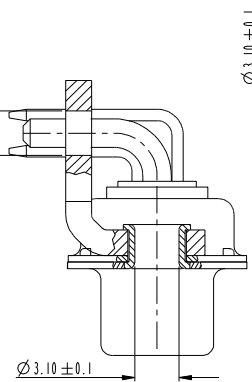
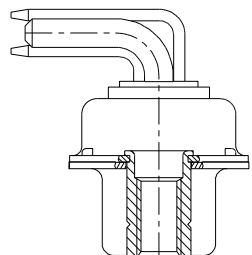
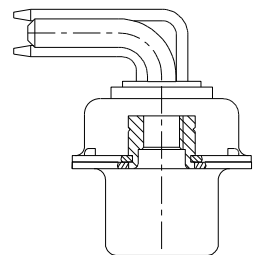
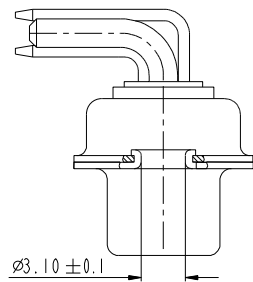
B

C

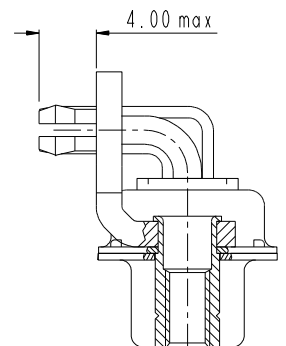
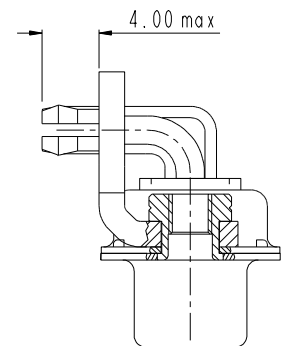
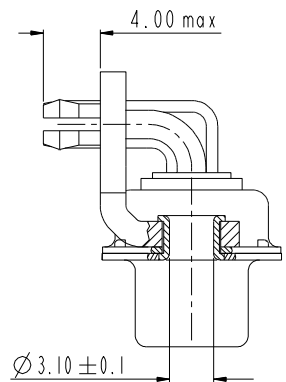
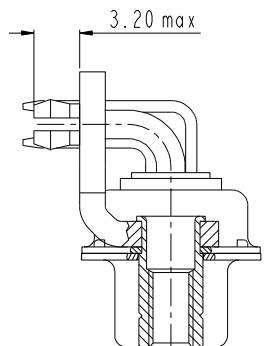
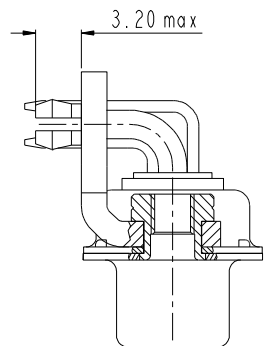
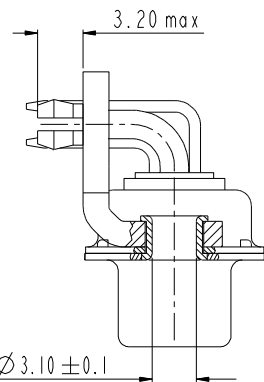
D

E

F



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

SCALE:4

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

FCI	title SUB MALE DW US foot print mixed power right angled solder	eng no C01-8639-2305	Rev. D
-----	---	-------------------------	-----------

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP700A30LF	30	200	without	without
D*LxWxP700A30LF	30	200	insert M3	without
D*OxWxP700A30LF	30	200	insert UNC 4.40	without
D*VxWxP700A30LF	30	200	female screw UNC 4.40	without
D*xWxP700H30LF	30	200	without	metal bracket+harpoon PCB 2.40mm
D*LxWxP700H30LF	30	200	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxP700H30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxP700H30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxP700G30LF	30	200	without	metal bracket+harpoon PCB 1.60mm
D*LxWxP700G30LF	30	200	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxP700G30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxP700G30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxP700M30LF	30	200	without	metal bracket
D*LxWxP700M30LF	30	200	insert M3	metal bracket
D*OxWxP700M30LF	30	200	insert UNC 4.40	metal bracket
D*VxWxP700M30LF	30	200	female screw UNC 4.40	metal bracket

shell size * LAYOUTS
xWx

A 11W1
A 7W2
B 21W1
B 17W2
B 13W3
C 25W3
C 21WA4
C 27W2

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP743A30LF	30	500	without	without
D*LxWxP743A30LF	30	500	insert M3	without
D*OxWxP743A30LF	30	500	insert UNC 4.40	without
D*VxWxP743A30LF	30	500	female screw UNC 4.40	without
D*xWxP743H30LF	30	500	without	metal bracket+harpoon PCB 2.40mm
D*LxWxP743H30LF	30	500	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxP743H30LF	30	500	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxP743H30LF	30	500	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxP743G30LF	30	500	without	metal bracket+harpoon PCB 1.60mm
D*LxWxP743G30LF	30	500	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxP743G30LF	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*xWxP743M30LF	30	500	without	metal bracket
D*LxWxP743M30LF	30	500	insert M3	metal bracket
D*OxWxP743M30LF	30	500	insert UNC 4.40	metal bracket
D*VxWxP743M30LF	30	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 A2
Eng	P LEGARE	2005-10-11	LINEAR	Scale 2:1
Chr			0° ±2°	ECN F09-0092
Appr			Product family	Spec ref
FCI		SUB MALE DW US foot print mixed power right angled solder		Rev. D
drawing no		C01-8639-2305		Sheet 3 of 6
CUSTOMER		Printed: Apr 28, 2015		

A

B

C

D

E

F

1

2

3

4

5

6

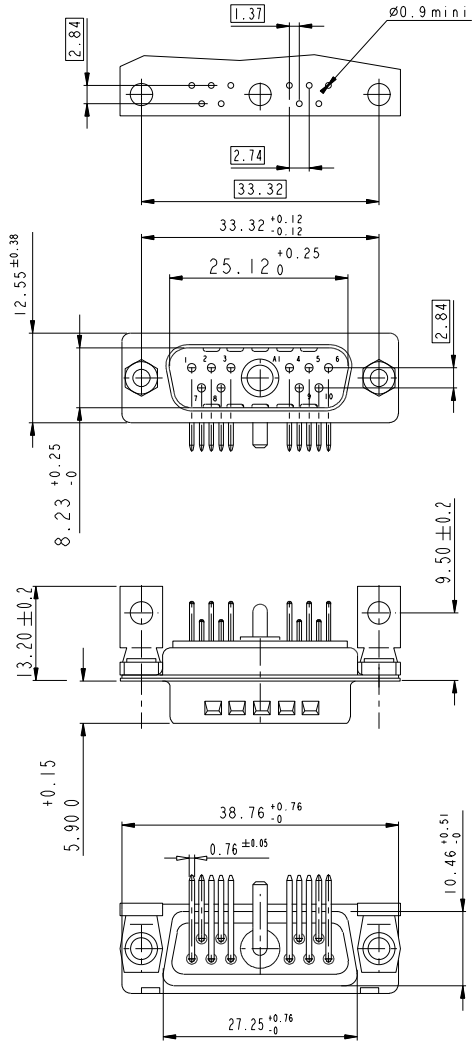
7

8

11W1

LAYOUT AND CONNECTOR DIMENSIONS

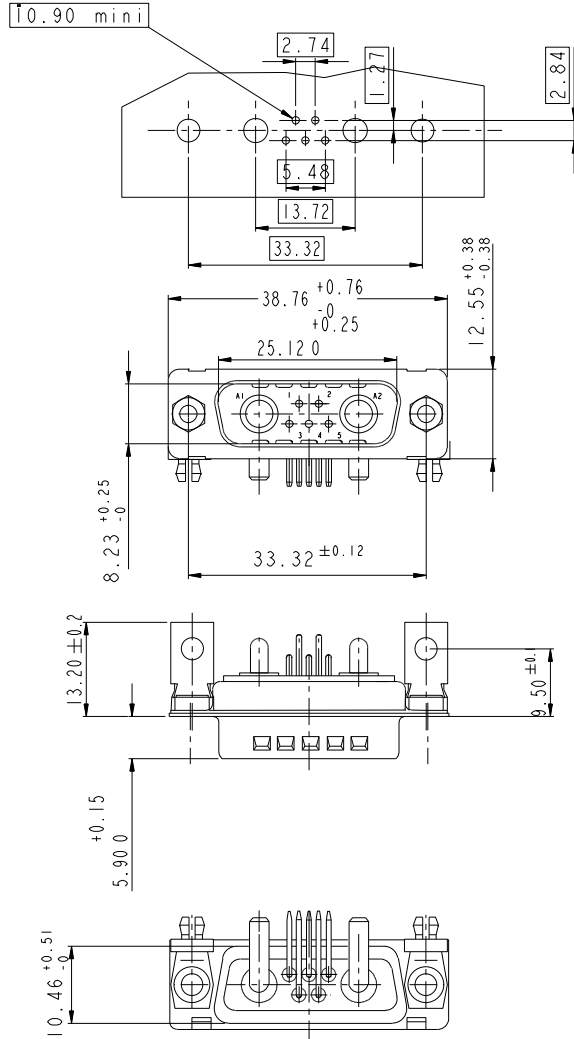
For PCB hole diameters see table 1 sheet 1



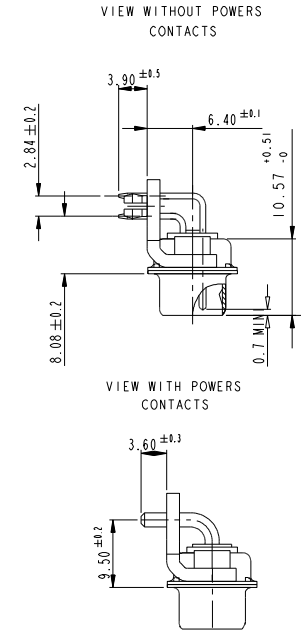
7W2

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1



SIDE VIEW FOR ALL LAYOUTS



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

FCI		title SUB MALE DW US foot print mixed power right angled solder	part no C01-8639-2305	Rev. D
-----	--	---	--------------------------	-----------

1

2

3

4

5

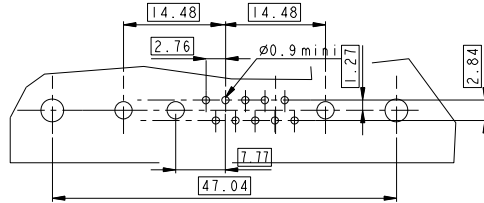
6

7

8

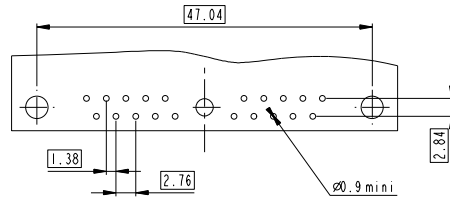
13W3

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



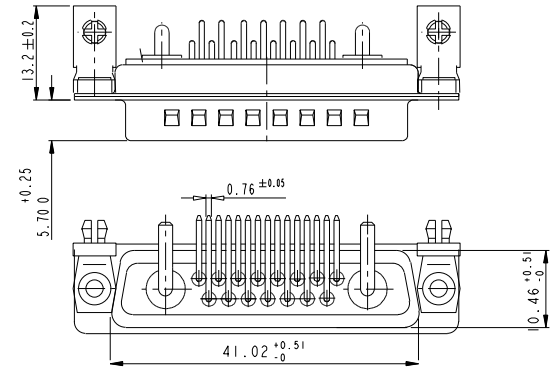
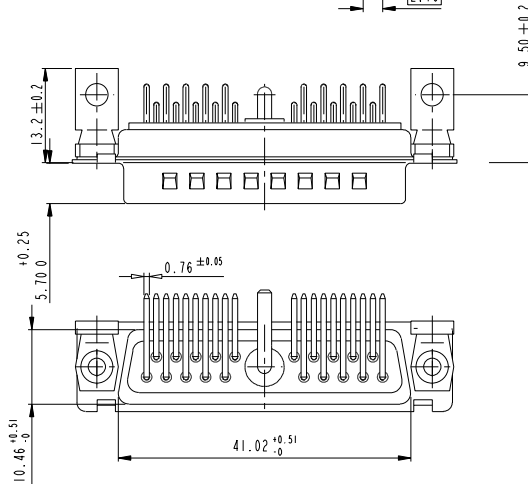
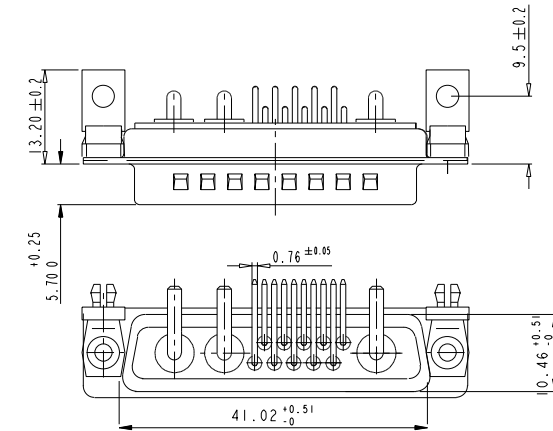
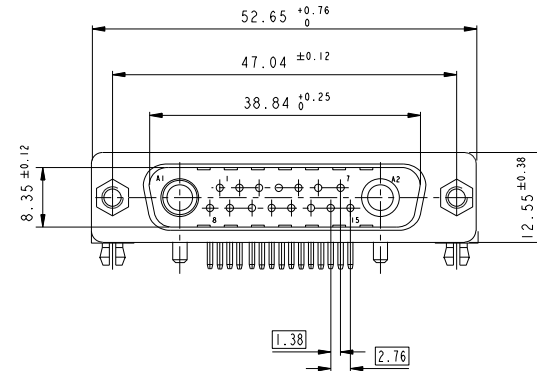
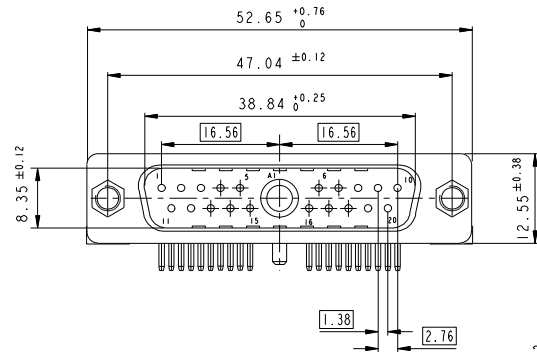
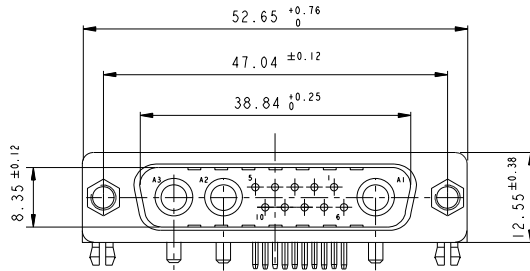
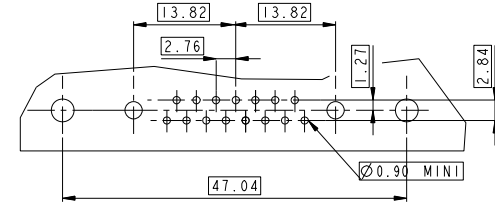
21W1

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

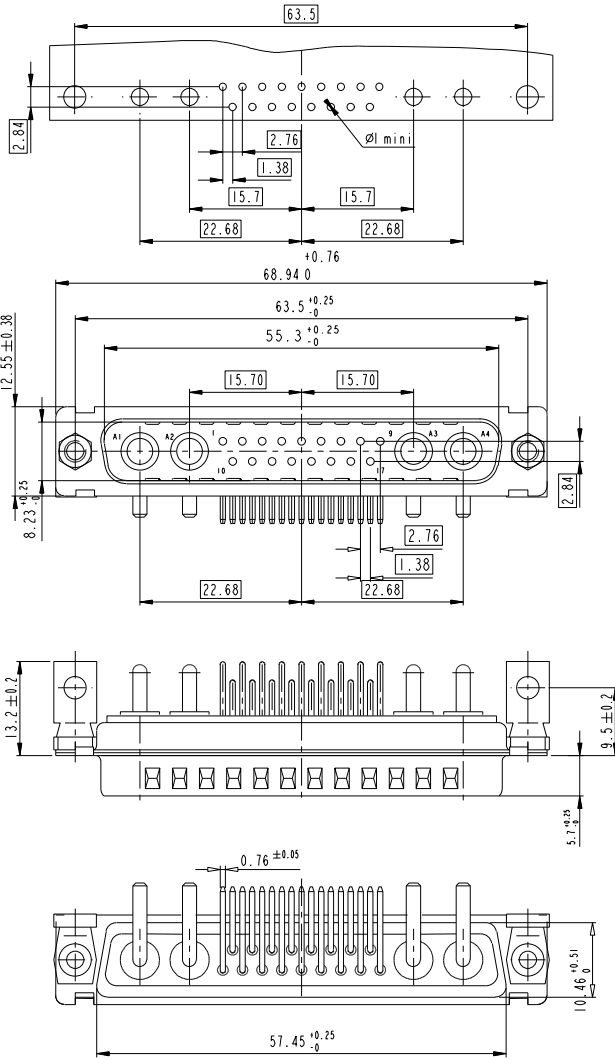


www.fciconnect.com		surface ISO 1302	tolerance std ISO 406 ISO 1101	projection mm	mm
TOLERANCES UNLESS OTHERWISE SPECIFIED		0.X	±0.3	size	A2
Dr	M PESSON 2005-10-11	ANGULAR	±0.1	Scale	2:1
Eng	P LEGARE 2005-10-11	LINEAR	0.XXX	ECN	F09-0092
Chr		0° ±2°	±0.05	Spec ref	
Appr		Product family			

FCI	title	SUB MALE DW US foot print	ang no	C01-8639-2305	Rev.
	description	mixed power right angled solder			D

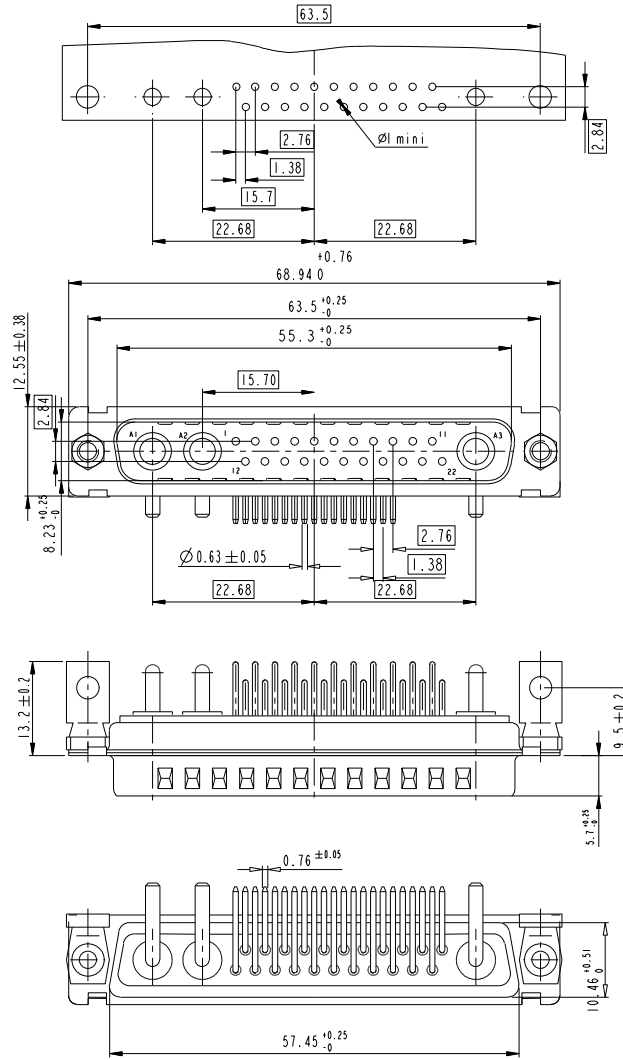
21WA4

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



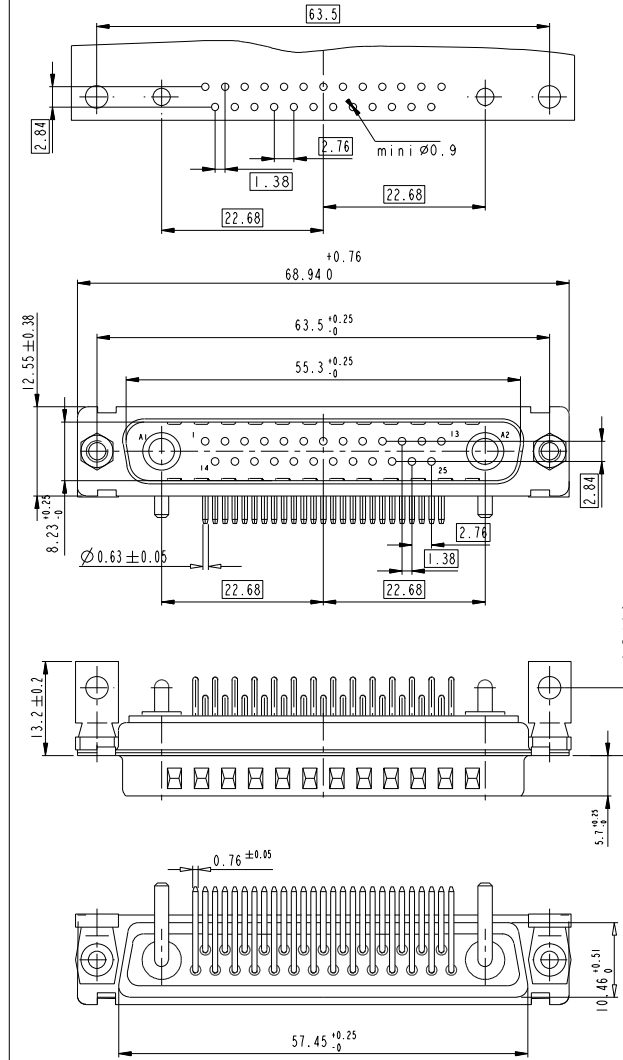
25W3

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



27W2

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		size A2	Scale 2:1
Dr	M PESSON	2005-10-11	ANGULAR	LINEAR	ECN F09-0092
Eng	P LEGARE	2005-10-11	0° ±2°	0.xxx ±0.05	Spec ref
Chr			Product family		
Appr					

FCI	title SUB MALE DW US foot print mixed power right angled solder	part no C01-8639-2305	Rev. D
-----	---	--------------------------	-----------