

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

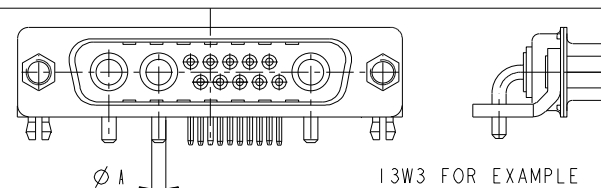
A :without accessory
H :Metal brackets+harpoons for PCB 2.40mm
G :Metal brackets+harpoons for PCB 1.60mm
M :Metal brackets

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	males	dw	us	foot print	size	scale	rev
A	LS05-0101	MPE	2005-10-11							A2	2:1	
B	LS06-0208	LGO	2006-12-12									
C	LS07-0273	MPE	2007/10/31									
D	F09-0092	LSA	2009/09/16									



SUB MALE DW US foot print
mixed power right angled solder

C01-8639-2305
CUSTOMER
Printed: Apr 28, 2015

PDM: Rev: D

STATUS: Released

Printed: Jun 19, 2015

A

B

C

D

E

F

A

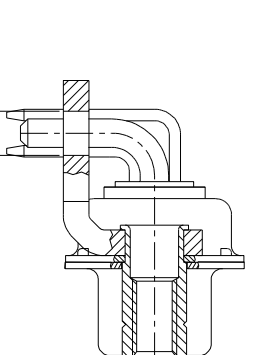
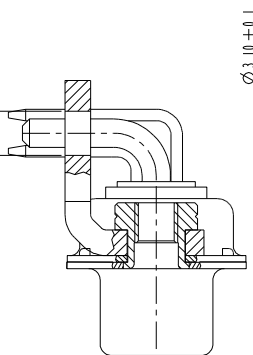
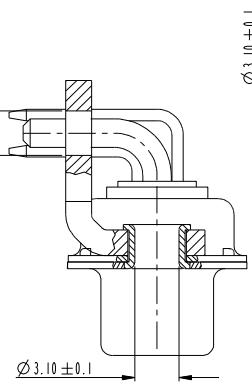
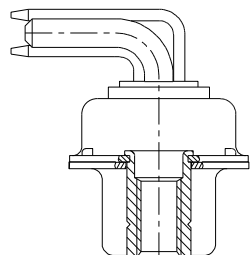
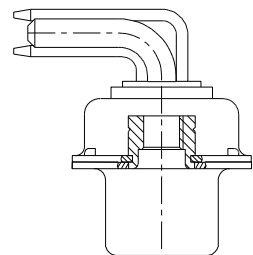
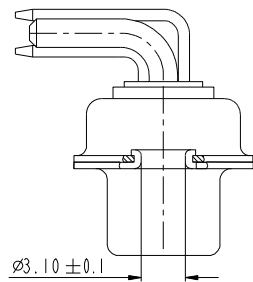
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C

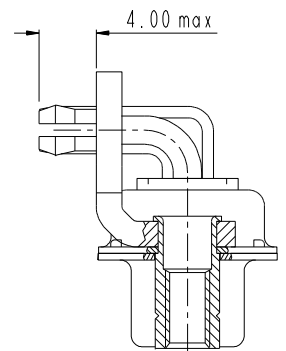
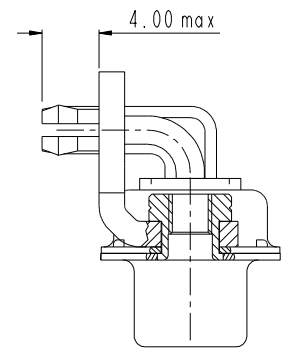
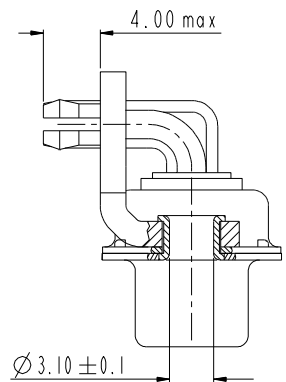
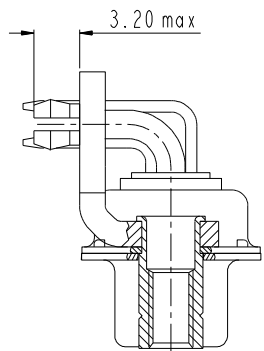
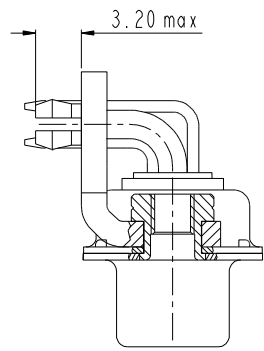
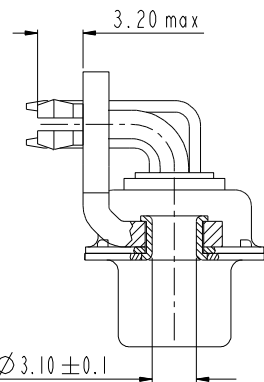
D

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

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

	I	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F

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

*

A

A

B

B

C

C

C

LAYOUTS

xWx

11W1

7W2

21W1

17W2

13W3

25W3

21WA4

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

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surface
ISO 1302

tolerance std
ISO 406 ISO 1101

projection
mm

TOLERANCES UNLESS OTHERWISE SPECIFIED

size
A2

Scale
2:1

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

ECN F09-0092

Product family

Spec ref

FCI

Sub MALE DW US foot print

mixed power right angled solder

org no

C01-8639-2305

Rev.

D

CUSTOMER

Printed: Apr 28, 2015

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FCI

REV F - 2005-03-20

1

2

3

4

5

6

7

8

PDM: REV'D

STATUS: Released

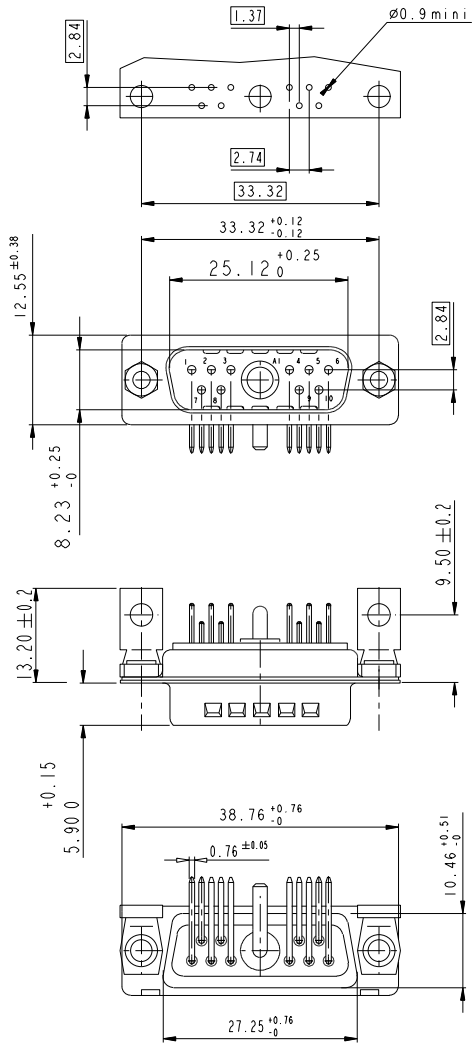
Printed: Apr 28, 2015

Sheet 3 of 6

Jun 19, 2015

LAYOUT AND CONNECTOR DIMENSIONS

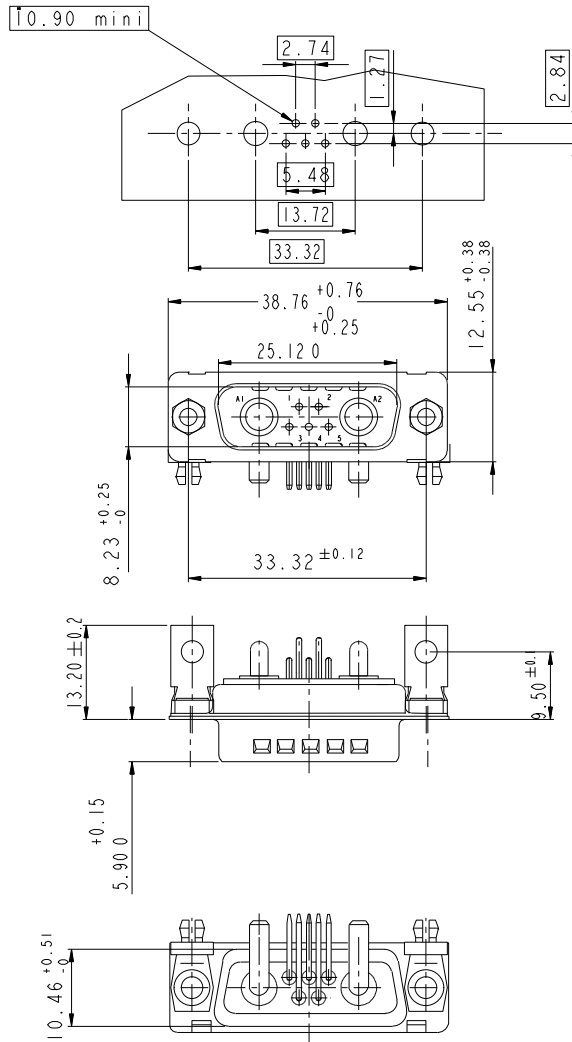
For PCB hole diameters see table 1 sheet 1



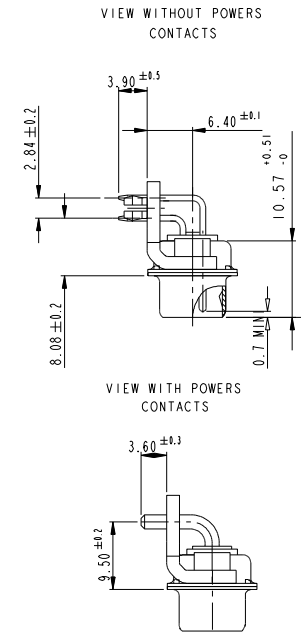
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LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1



SIDE VIEW FOR ALL LAYOUTS



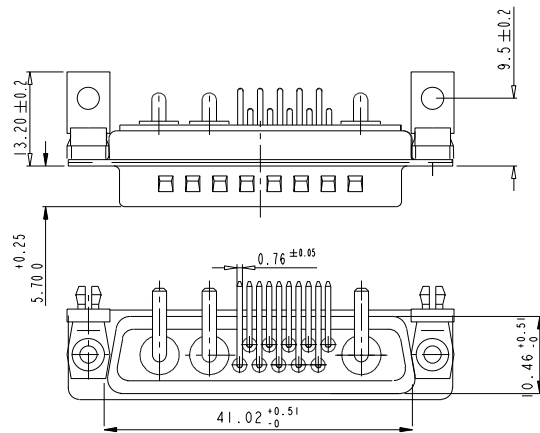
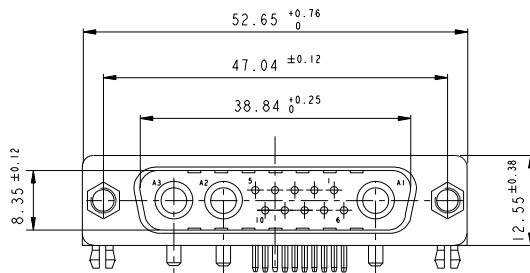
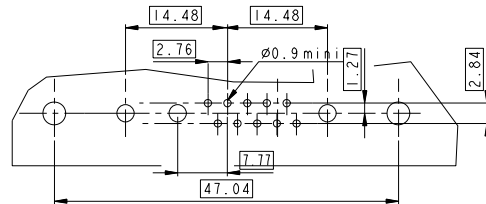
www.fciconnect.com		surface ISO 1302	tolerance std ISO 406 ISO 1101	projection mm	
		TOLERANCES UNLESS OTHERWISE SPECIFIED		size A2	Scale 2:1
Dr	M PESSON	2005-10-11	ANGULAR	0.X	±0.3
Eng	P LEGARE	2005-10-11	LINEAR	0.XX	±0.1
Chr			0° ±2°	0.XXX	±0.05
Appr			Product family	ECN	F09-0092
				Spec ref	

SUB MALE DW US foot print		part no	C01-8639-2305	Rev.	D
mixed power right angled solder		CUSTOMER		Sheet 4 of 6	

13W3

LAYOUT AND CONNECTOR DIMENSIONS

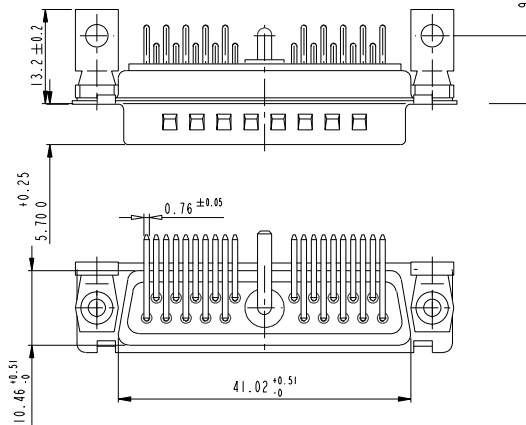
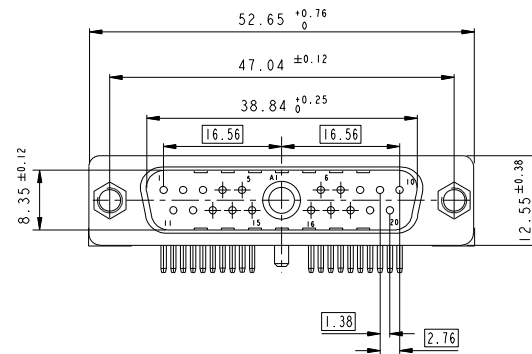
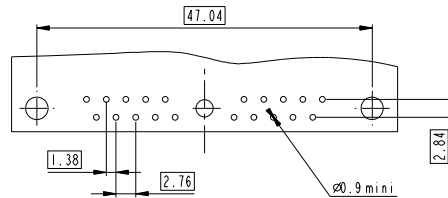
For PCB hole diameters see table 1 sheet 1



21W1

LAYOUT AND CONNECTOR DIMENSIONS

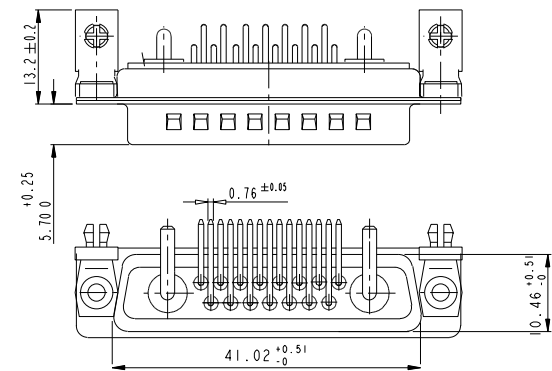
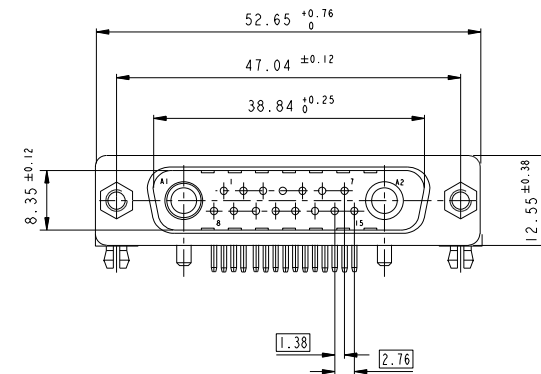
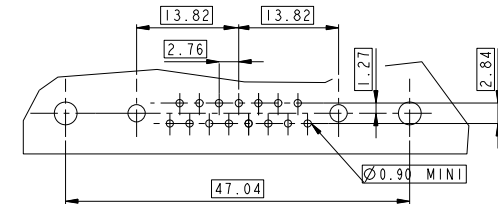
For PCB hole diameters see table 1 sheet 1



17W2

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1



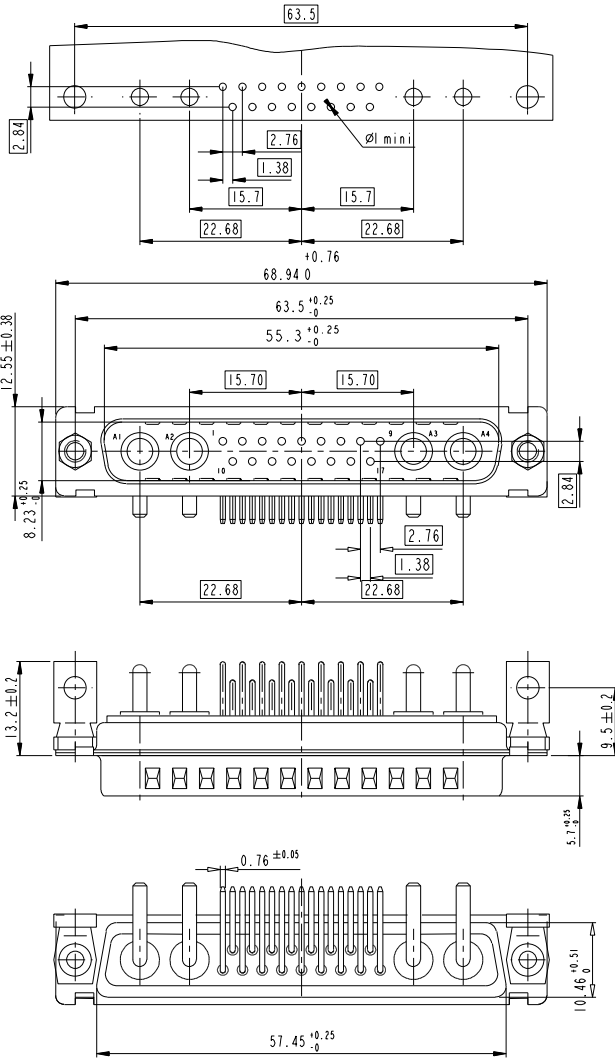
www.fciconnect.com		surface ISO 1302	tolerance std ISO 406 ISO 1101	projection mm	mm
TOLERANCES UNLESS OTHERWISE SPECIFIED		0.X	±0.3	size	A2
Dr	M PESSON 2005-10-11	ANGULAR	±0.1	Scale	2:1
Eng	P LEGARE 2005-10-11	LINEAR	0.XX	ECN	F09-0092
Chr		0° ±2°	±0.05	Spec ref	
Appr		Product family			

FCI		title	SUB MALE DW US foot print	eng no	C01-8639-2305	Rev.	D
solution no		mixed power right angled solder		CUSTOMER		Sheet 5 of 6	

PDM-REV-D STATUS Released Printed: Apr 28, 2015

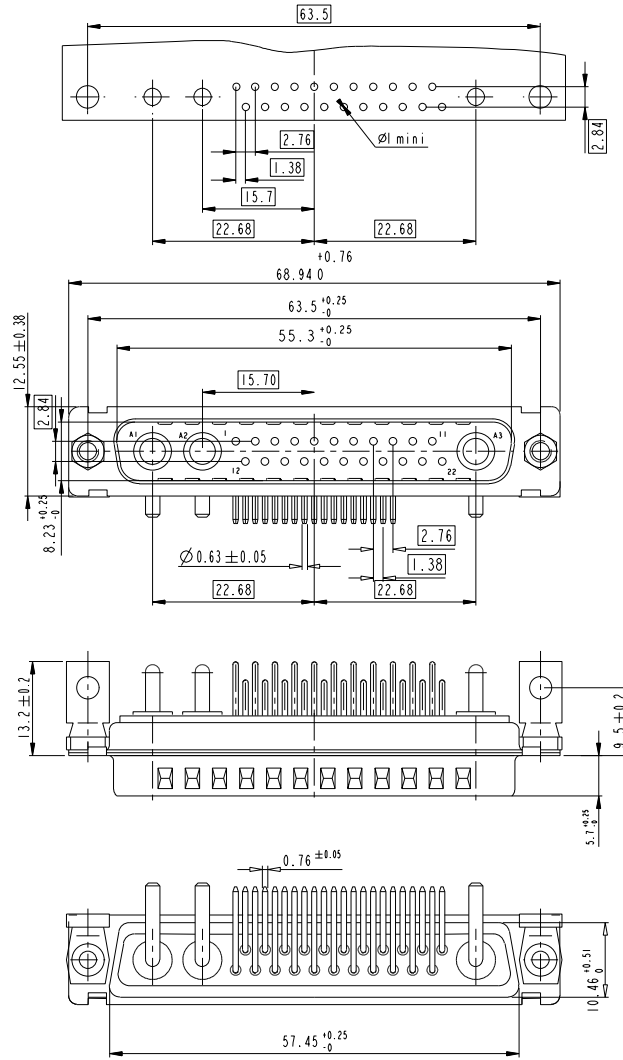
21WA4

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



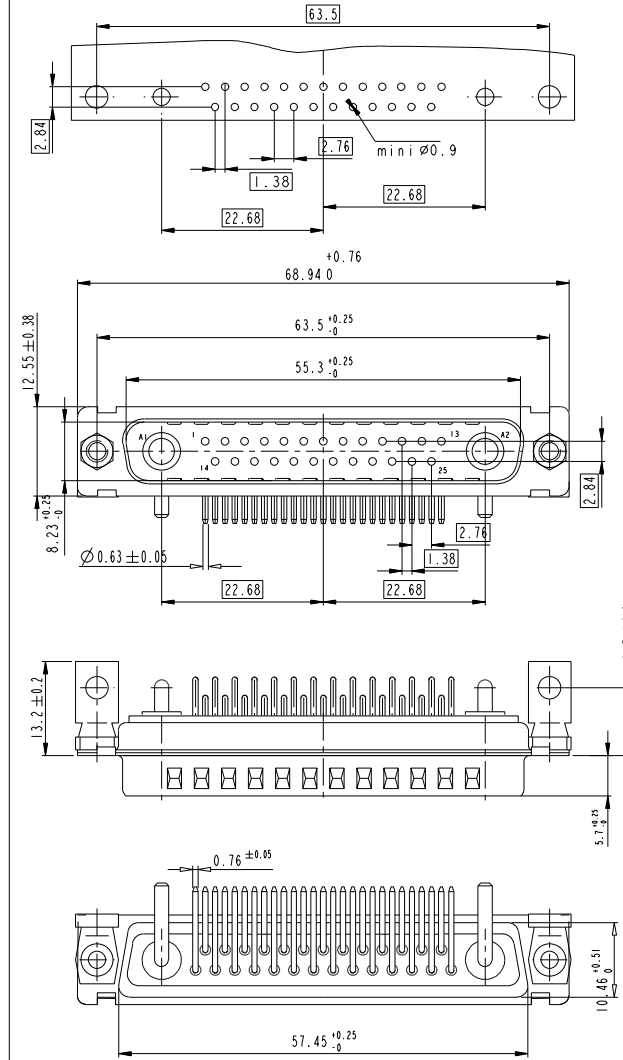
25W3

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



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

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