

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

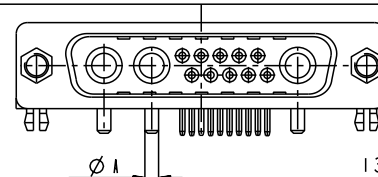
Power contacts

30 :Fitted with power contacts 30 Amp.



See note RoHS

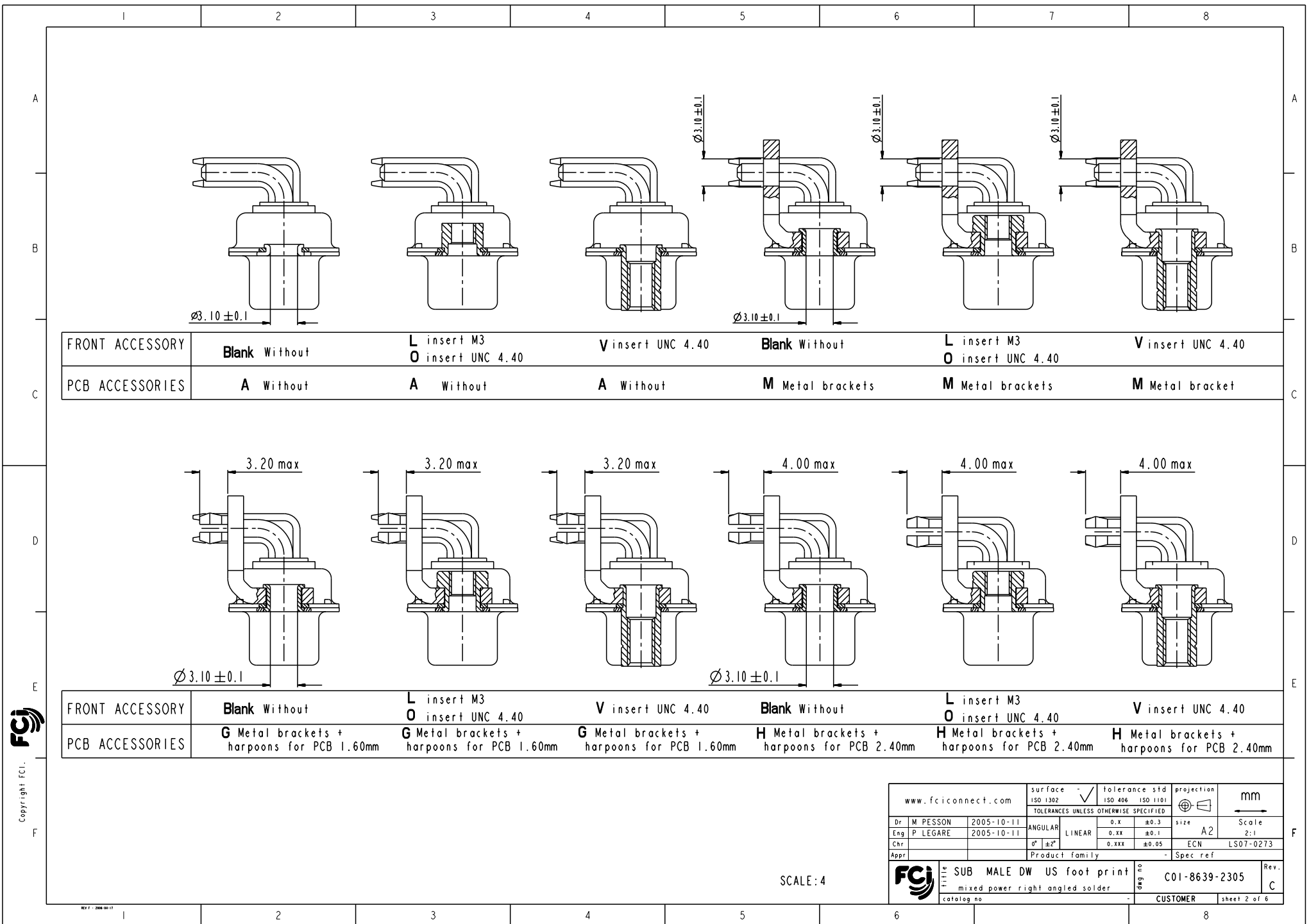
TABLE 1:PCB HOLE DIAMETERS

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



13W3 FOR EXAMPLE

www.fciconnect.com			surface - <input checked="" type="checkbox"/> tolerance std ISO 1302 ISO 406 ISO 1101					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	LS07-0273	
Appr			Product family			- Spec ref			
			SUB MALE DW US foot print			dag no		C01-8639-2305	
			mixed power right angled solder					Rev. C	
catalog no						CUSTOMER		sheet 1 of 6	



	1	2	3	4	5	6	7	8
A								
B								
C								
D								
E								
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

B

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

Dr

M PESSON

2005-10-11

tolerances unless otherwise specified

0.X

±0.3

size

A2

Scale

2:1

Eng

P LEGARE

2005-10-11

ANGULAR

LINEAR

0.XX

±0.1

ECN

LS07-0273

Chr

0° ±2°

0.XXX

±0.05

Product family

-

Spec ref

Appr

Product family

-

Spec ref

FCI

title

SUB MALE DW US foot print

deg no

C01-8639-2305

Rev.

C

mixed power right angled solder

catalog no

-

CUSTOMER

sheet 3 of 6

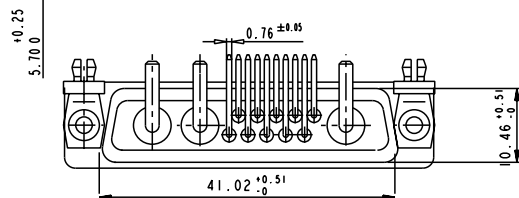
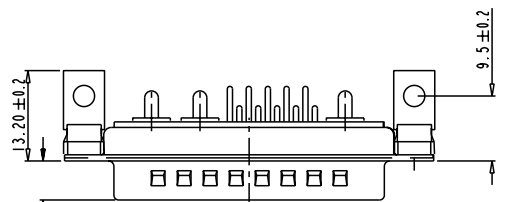
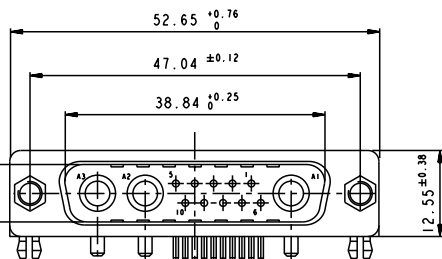


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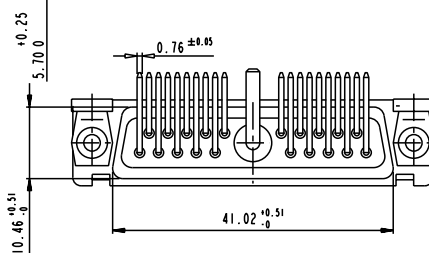
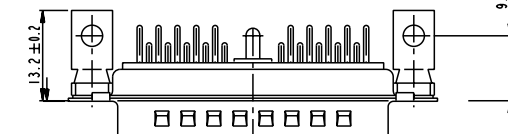
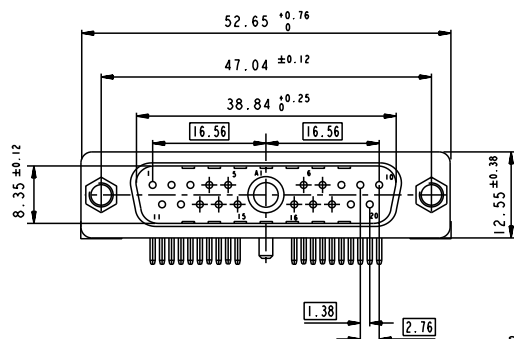
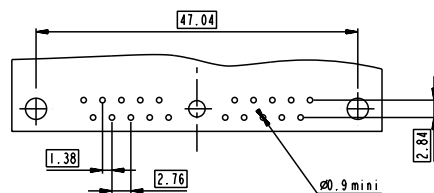
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table 1 sheet 1

For PCB hole diameters see table 1 sheet 1



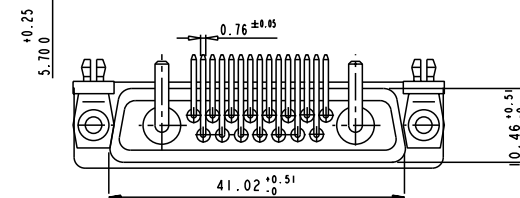
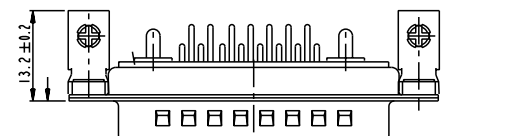
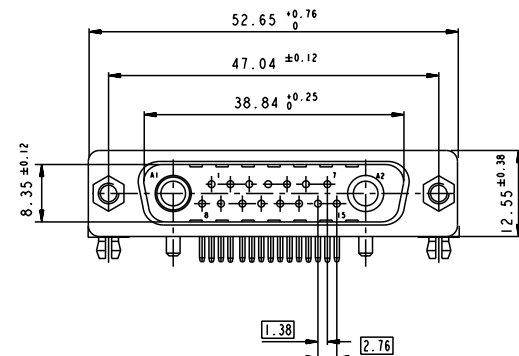
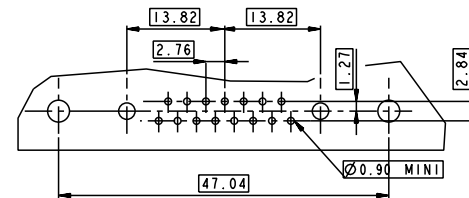
LAYOUT AND CONNECTOR DIMENSIONS




For PCB hole diameters see table 1 sheet 1



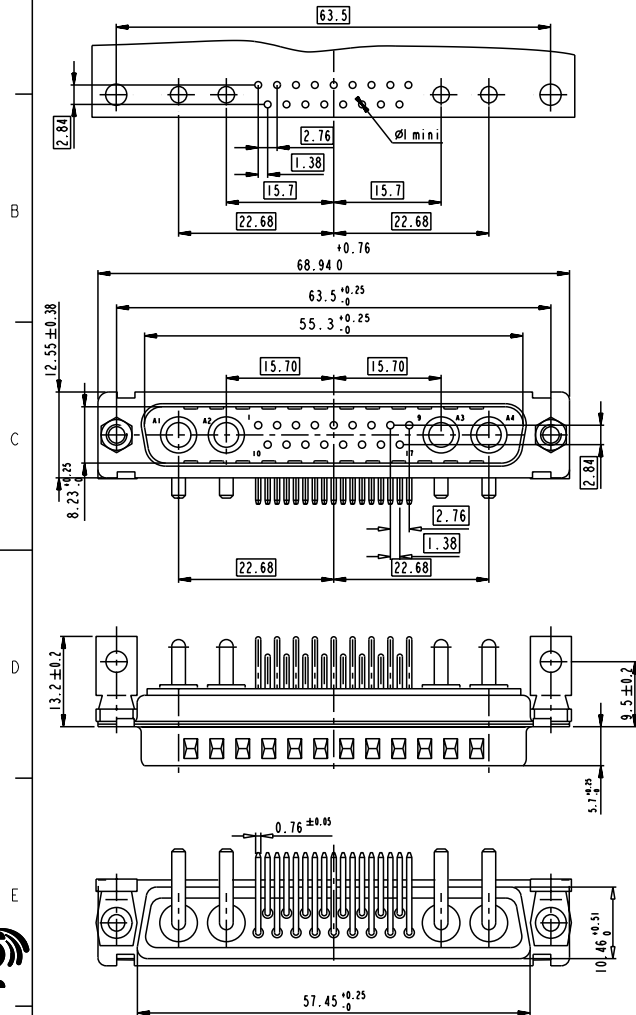
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1

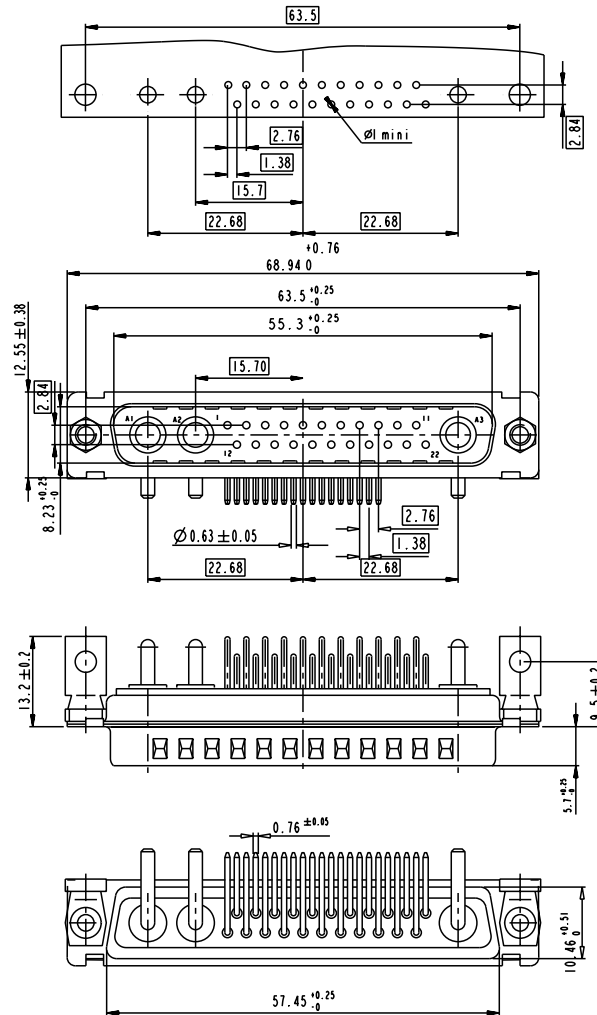


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TOLERANCES UNLESS OTHERWISE SPECIFIED							
Dr	M PESSON	2005-10-11	ANGULAR	LINEAR	0.X ± 0.3	size	Scale 2:1
Eng	P LEGARE	2005-10-11			0.XX ± 0.1	A2	
Chr			0° $\pm 2^\circ$		0.XXX ± 0.05	ECN	LS07-0273
Appr			Product family		- Spec ref		
		Title SUB MALE DW US foot print mixed power right angled solder				C01-8639-2305	
catloga no -		-		CUSTOMER		sheet 5 of 6	
						Rev. C	

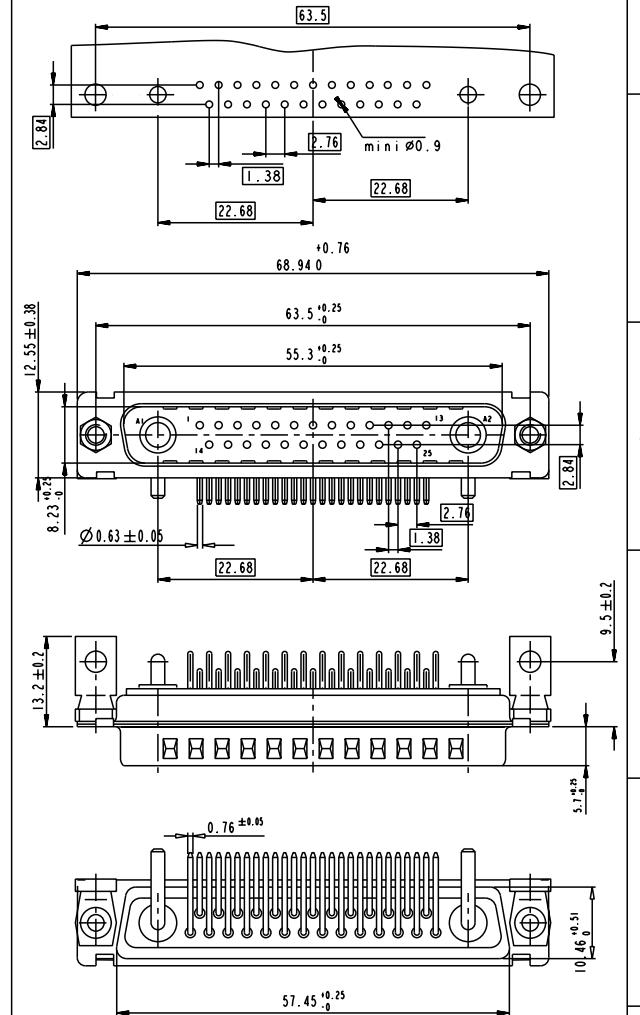
21WA4





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

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
Eng	P LEGARE	2005-10-11	LINEAR	0.XX	±0.1			2:1
Chr			0° ±2°	0.XXX	±0.05	ECN	LS07-0273	
Appr			Product family		- Spec ref			
		SUB MALE DW US foot print				C01-8639-2305		Rev. C
		mixed power right angled solder						
catalog no		-		CUSTOMER			sheet 6 of 6	



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