

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 1.27µmi+Sn 2.5 to 7.5µ.pure bright
- Active area plating spec:
 - Signal and power contacts: Ni + Gold
- Shell plating :2 to 4µm Cu + 3 to 10µmm Sn,pure bright
- Accessories: Sn pure bright
- Packaging spec: See GS-14-920

Series

DBL13W3S300G30LF

Shell size: E A B C D
see sheet 2
Front accessory definition
see sheet 2

- (blank) :No shell accessory
- L :Threaded insert M3
- O :Threaded insert UNC 4-40
- V :Female screw UNC 4-40
- I :Female screw UNC M3

Layout of contacts (see sheet 3)

Contacts
S :Socket

Termination type
3 Straight version

Plating
00 200 matings/unmatings
43 500 matings/unmatings

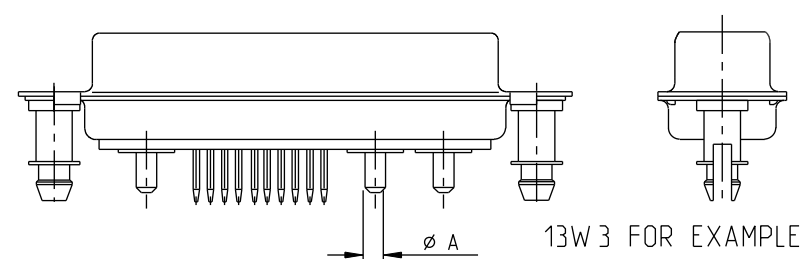
PCB accessories definition
see sheet 2
A : No PCB accessory
H : Harpoons for PCB 2.40mm
G : Harpoons for PCB 1.60mm

Power contacts
00 :Not fitted with power contact
30 :Fitted with power contacts 30 Amp.
40 :Fitted with power contacts 40 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
40 A	2.80	3.10		
Max current power	øA ^{+0.1} ₀	PCB HOLE +/-0.1	PCB HOLE +/-0.1	PCB HOLE +/-0.1



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			
Eng	P LEGARE	2005-10-11			0.XX	±0.1	Scale			2:1	
Chr					0° ±2°	0.XXX	±0.05	ECN			F10-0035
Appr			Product family				-	Spec ref			
FCI			title SUB SOCKET DW				dwg no		C01-8639-2302		Rev.
			mixed power straight solder								J
			catalog no				-	CUSTOMER		sheet 1 of 7	



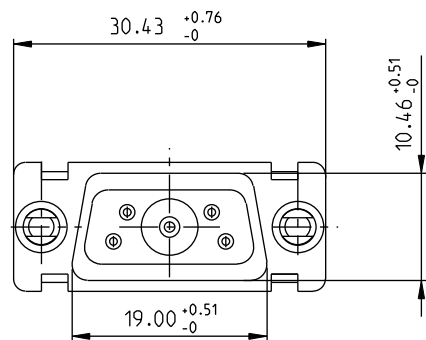
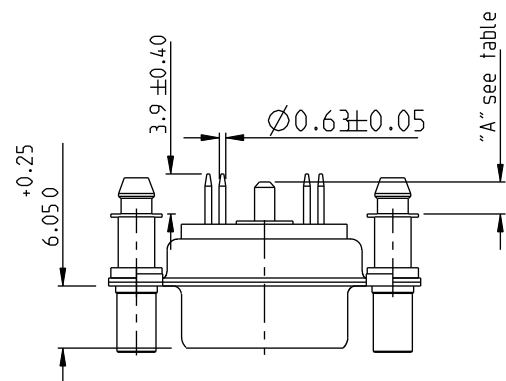
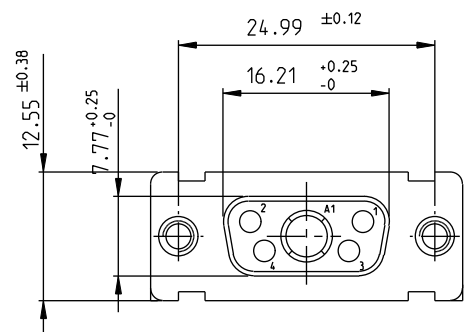
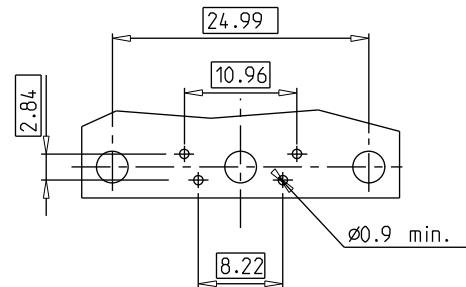
Floating signal contacts

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5W 1

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1

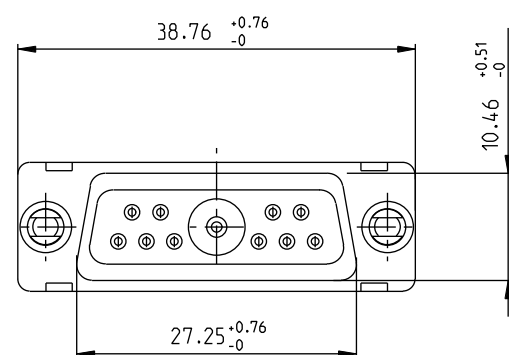
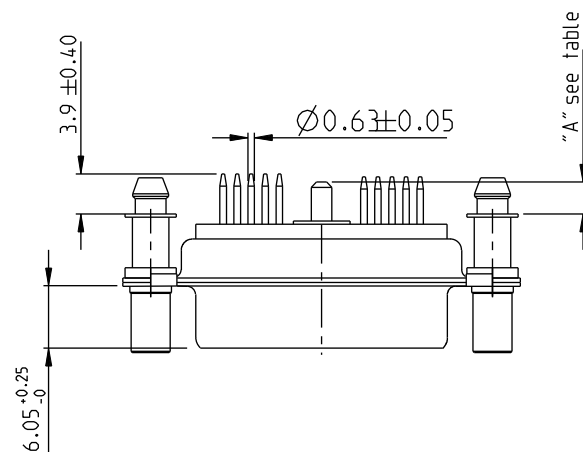
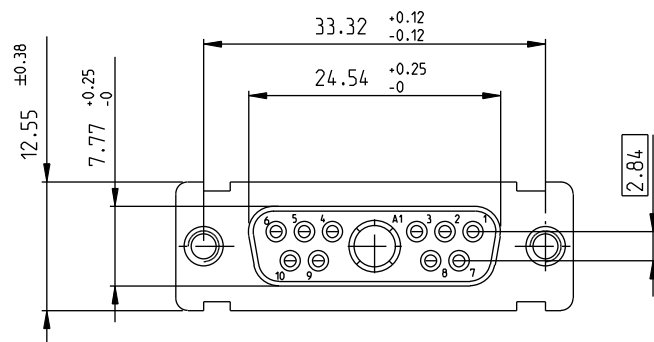
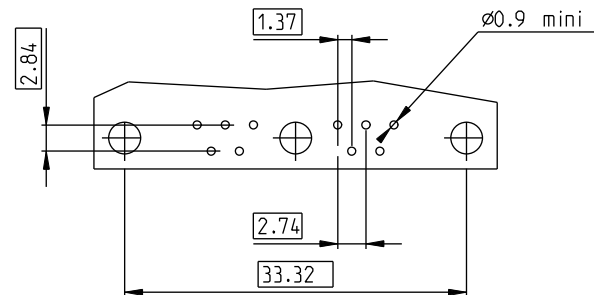


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11W 1

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1

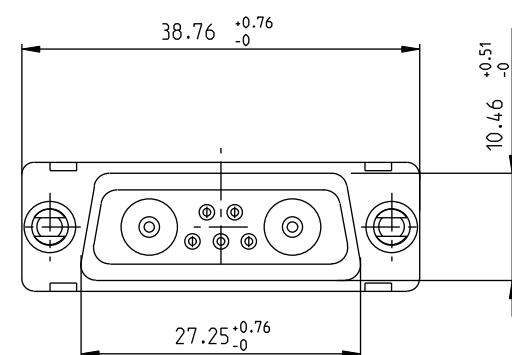
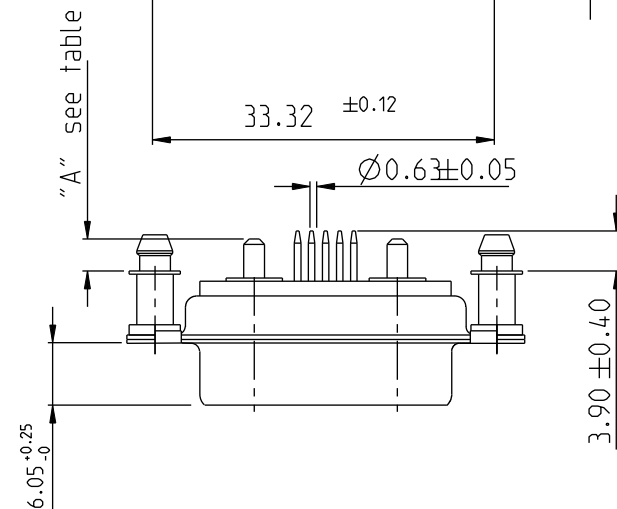
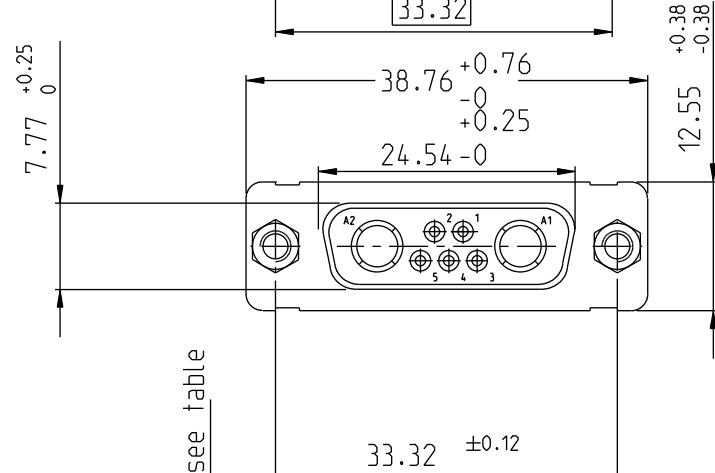
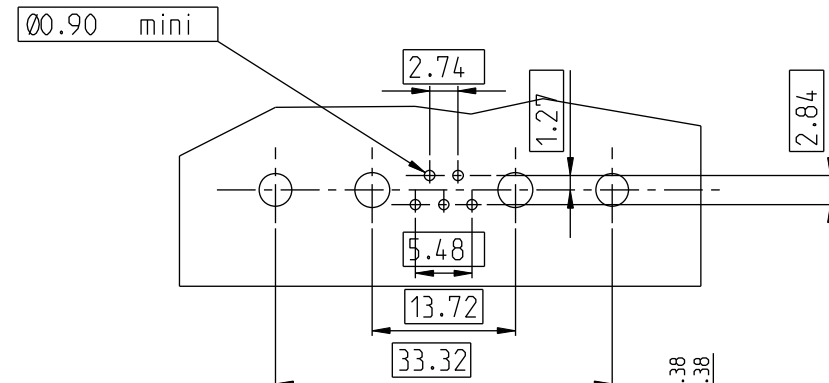


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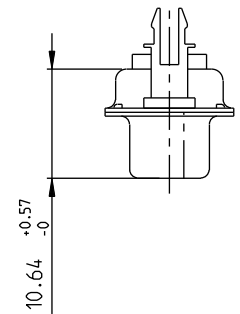
7W 2

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1



SIDE VIEW FOR LAYOUTS: E A B C



COTE "A"

30A	3.1±0.25
40A	3.6±0.25

www.fciconnect.com			surface ISO 1302		- ✓ tolerance std 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° ±2°		0.XXX	±0.05	ECN	F10-0035		
Appr			Product family				-	Spec ref		
		title SUB SOCKET DW mixed power straight solder				dwg no C01-8639-2302		Rev. J		
catalog no		-				CUSTOMER		sheet 3 of 7		

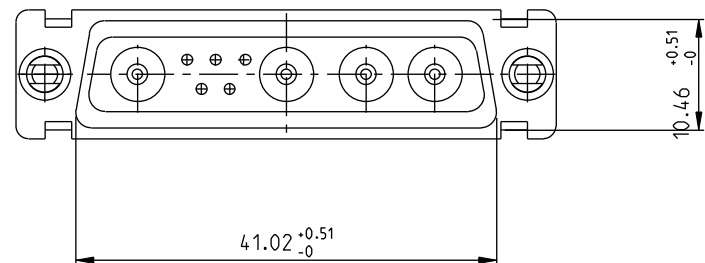
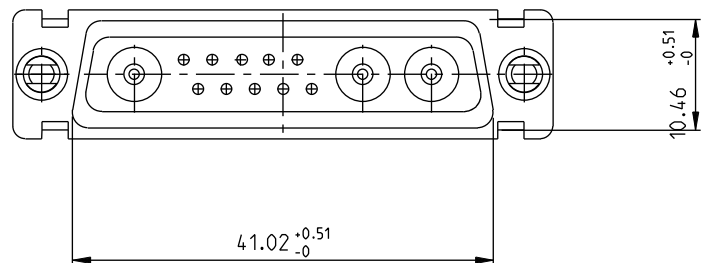
PDS: Rev :J

PDM: Rev :J

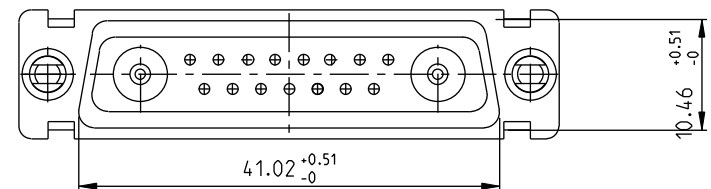
Released

Released

Printed: Jun 19, 2015



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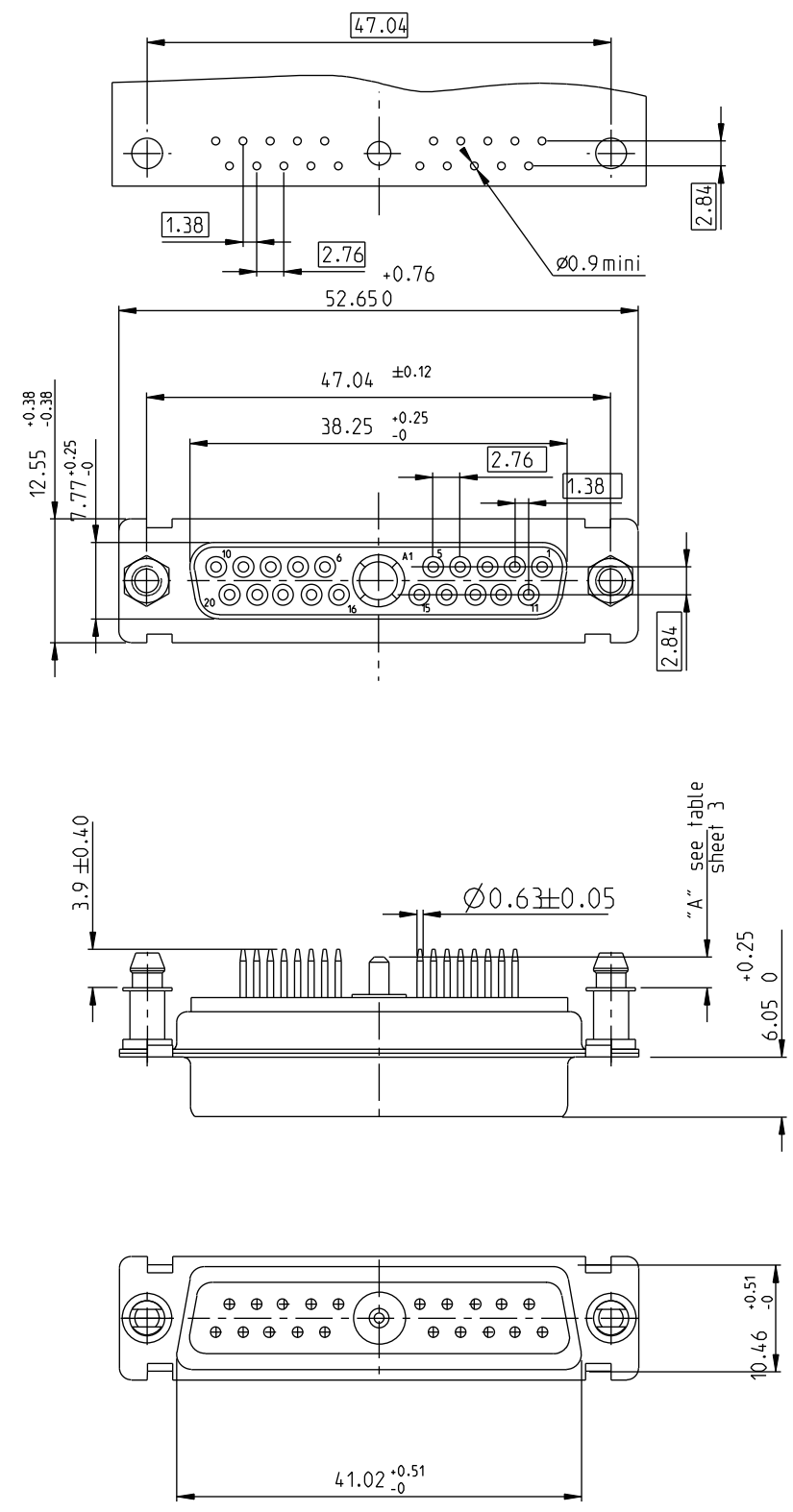
Released Printed: Jun 19, 2015



1 2

21W 1

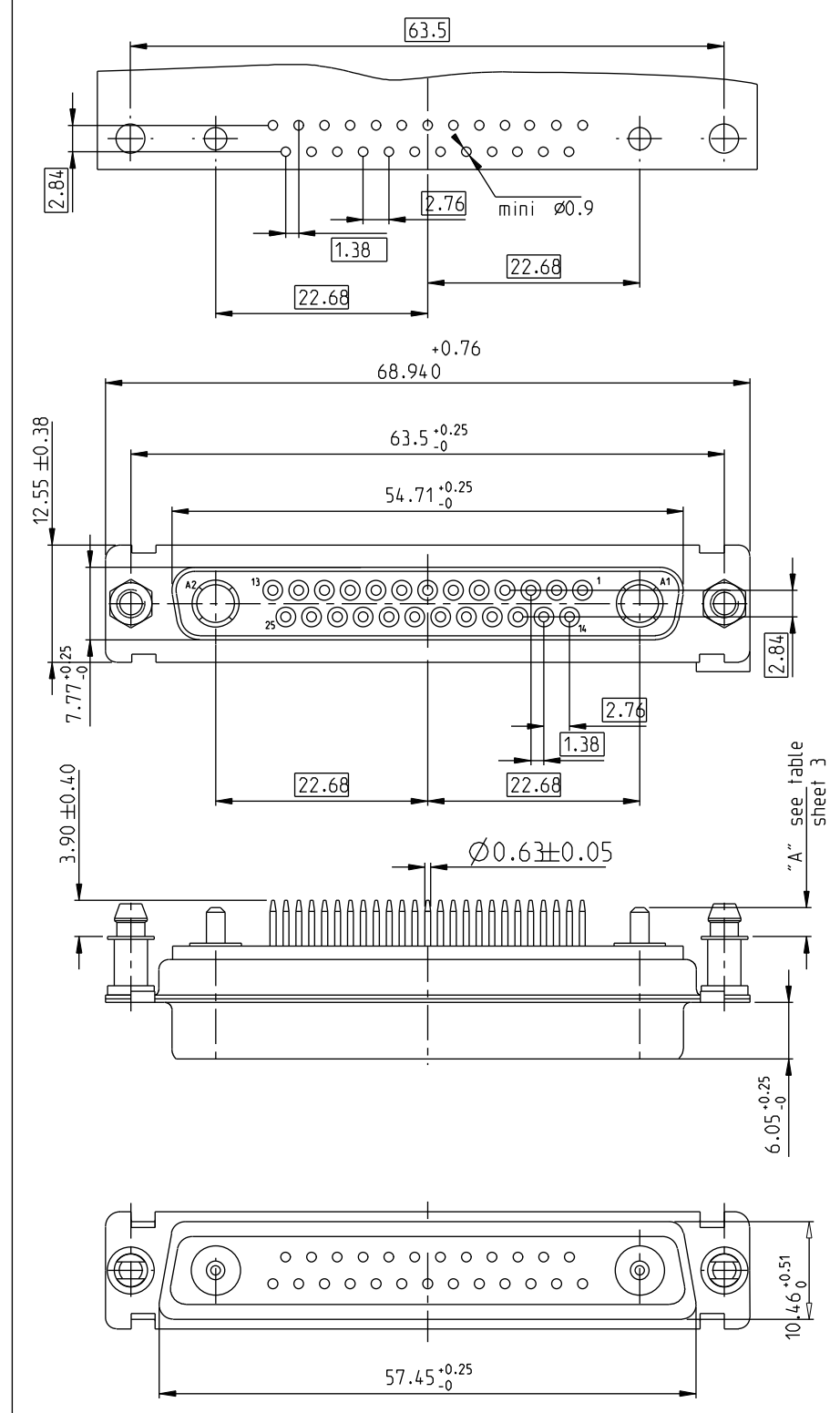
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table 1 sheet 1



3 4

27W 2

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

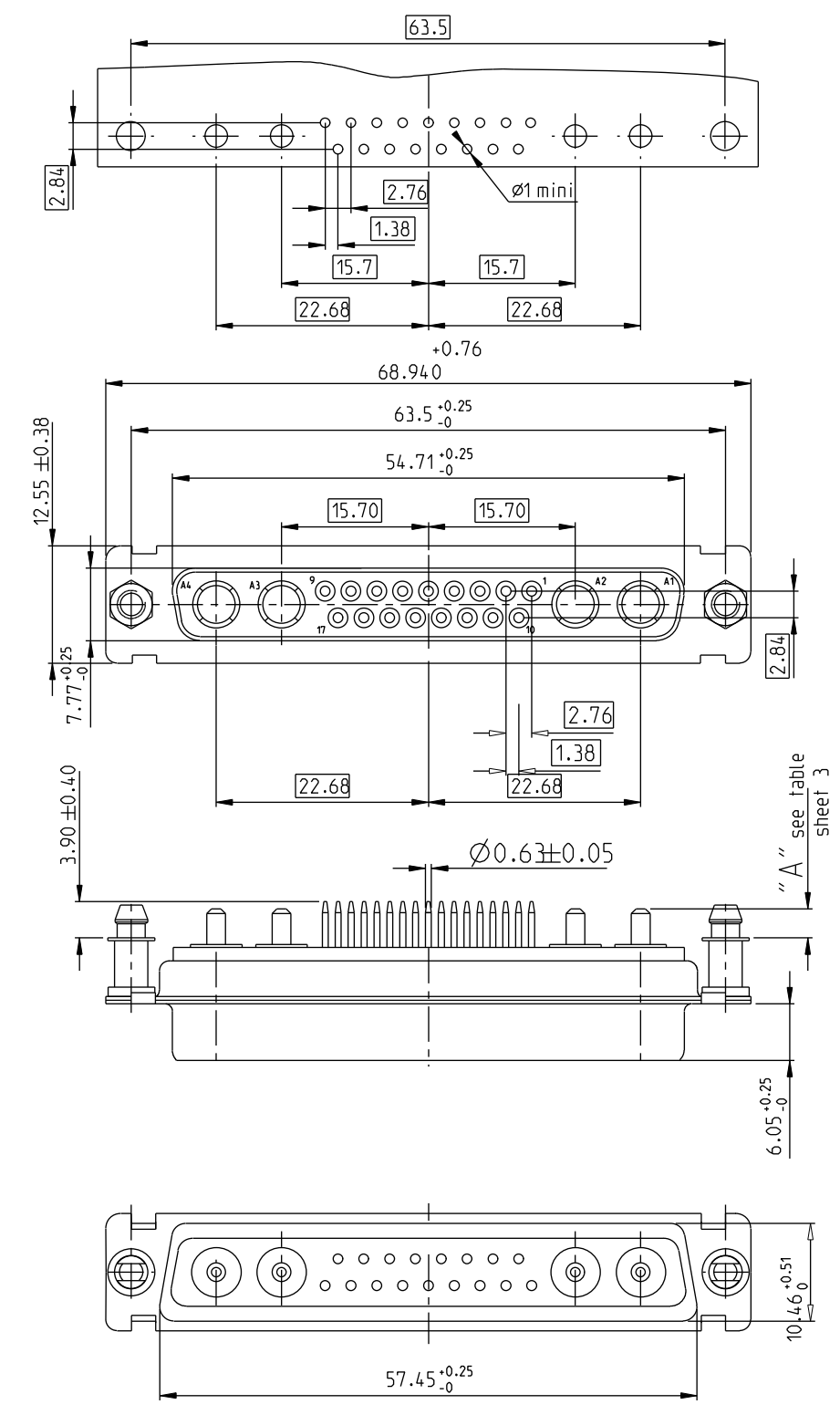


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6 7

21W A4

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



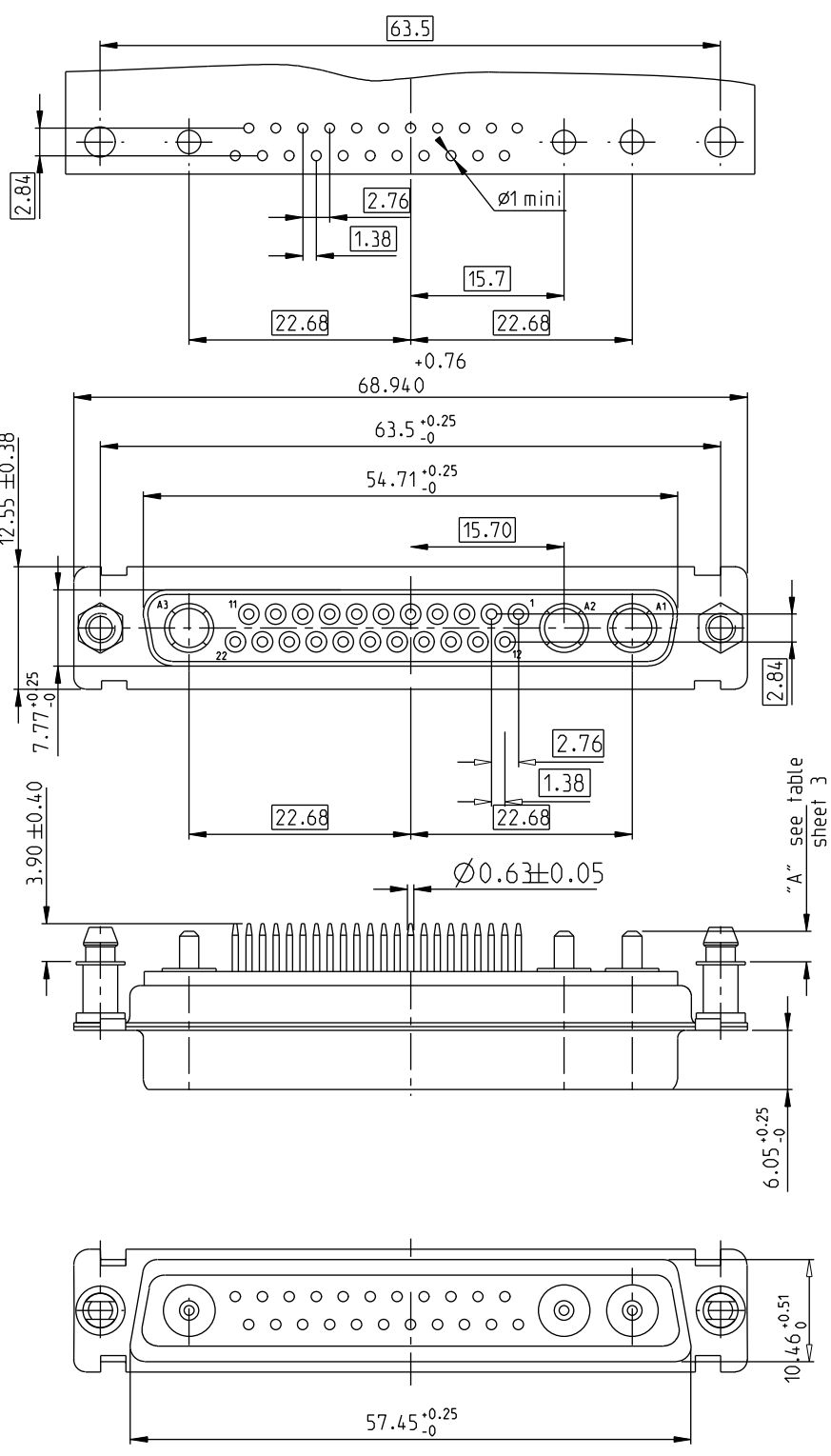
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www.fciconnect.com			surface ISO 1302	tolerance std ISO 406 ISO 1101	projection mm		
			TOLERANCES UNLESS OTHERWISE SPECIFIED				
Dr	M PESSON	2005-10-11	ANGULAR	0.X	±0.3	size	Scale
Eng	P LEGARE	2005-10-11		0.XX	±0.1	A2	2:1
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Appr			Product family			Spec ref	
FCI			title			dwg no	Rev.
			SUB SOCKET DW			C01-8639-2302	J
			mixed power straight solder				
			catalog no			CUSTOMER	sheet 5 of 7



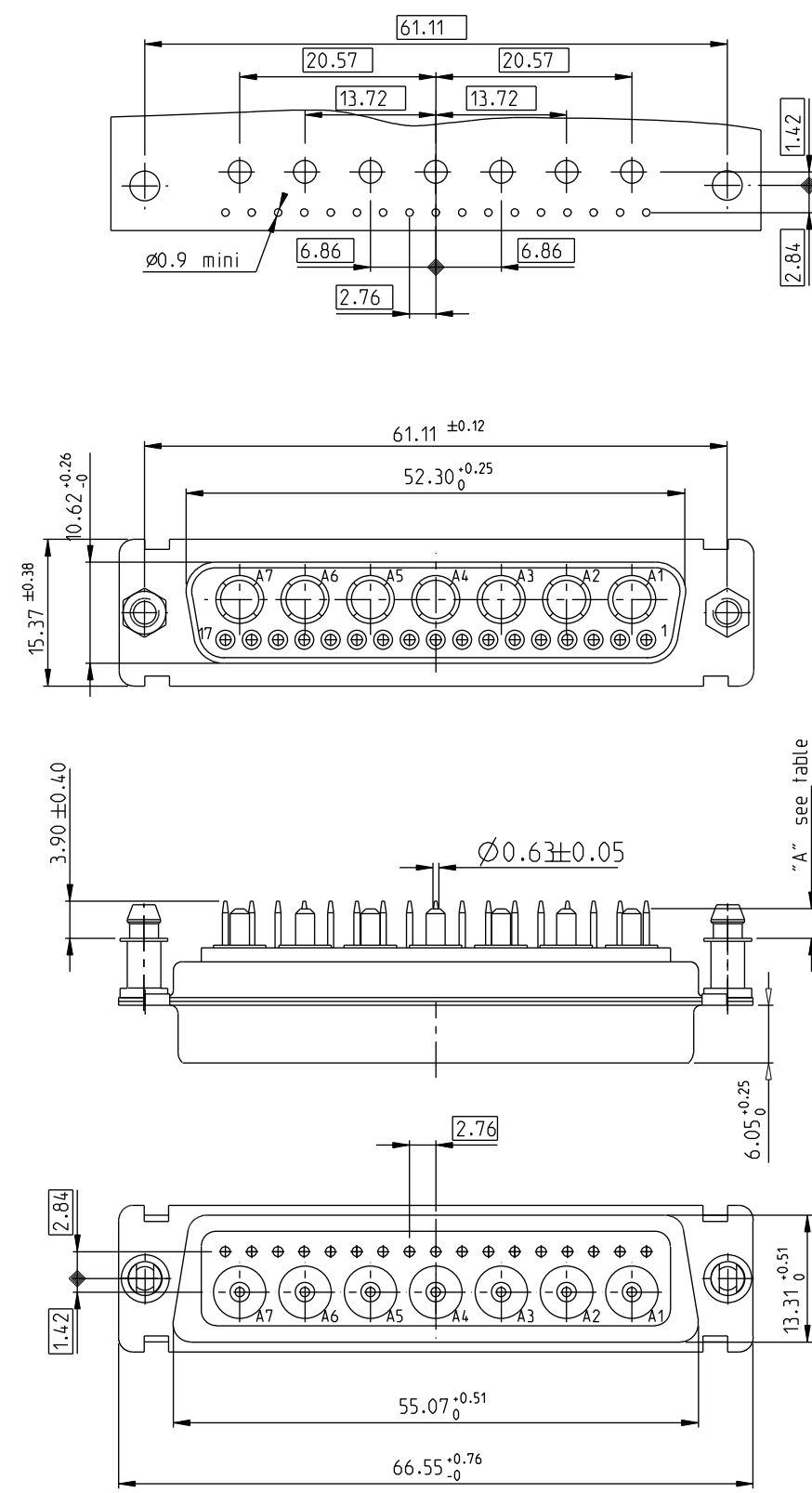
25W 3

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

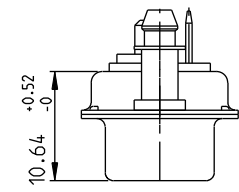


24W 7

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



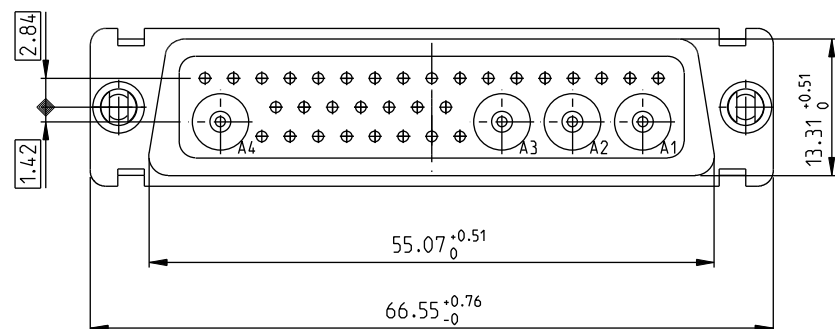
SIDE VIEW FOR
LAYOUTS: D



www.fciconnect.com			surface ISO 1302		- ✓ tolerance std 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			0°	±2°			ECN	F10-0035			
			Product family				-	Spec ref			
			title SUB SOCKET DW mixed power straight solder				dwg no C01-8639-2302		Rev. J		
catalog no			-				CUSTOMER		sheet 6 of 7		

LAYOUT AND CONNECTOR DIMENSIONS

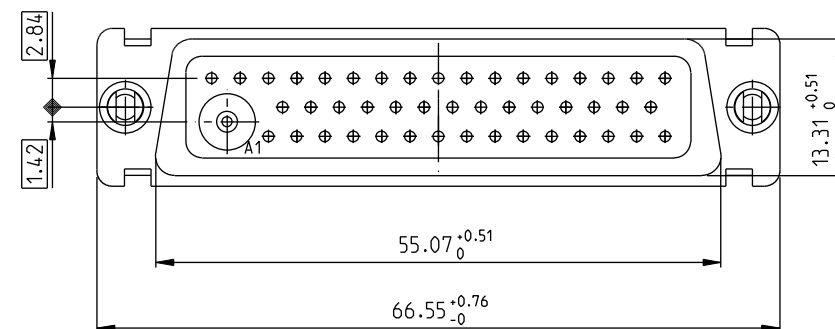
For PCB hole diameters see table 1 sheet 1



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LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1



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PDM: Released STATUS: Released STATUS: Released Printed: Jun 19, 2015