

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 507)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOPLASTIC ,UL94V0

-CONTACT MATERIAL: BRASS

-ACCESSORIES: BRASS

-SHELLS: STEEL

ELECTRICAL CHARACTERISTICS

-NOMINAL CURRENT: 30A

-CONTACT RESISTANCE: <= 7.3 m ohms

-CONTACT/CONTACT : >=1000 V

-CONTACT/GROUND : >=1200 V

-INSULATION RESISTANCE: >=5000 MOhms

ENVIRONMENTAL CHARACTERISTICS

- CLIMATIC CATEGORY: 55/125/21

TEMPERATURE RANGE -55°C TO +125°C

DAMP HEAT STEADY STATE 21 DAYS

SALT SPRAY 24 HOURS

MECHANICAL CHARACTERISTICS

- 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:
 - Ni 1.27µm+Sn 2.5 to 7.5µm(pure bright)
- Active area plating spec:
 - 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

DBL5W5S700G30LF

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 sheets)

Contacts

S :Socket

Termination type
7 Right angle/USA

Plating

00 200 matings/unmatings
43 500 matings/unmatings

PCB accessories definition
see sheet 2

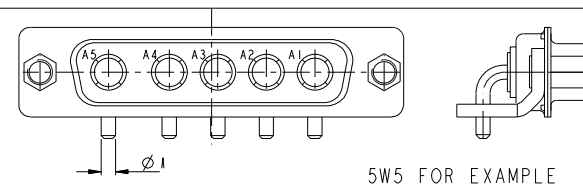
A :without accessory
H :Metal brackets+harpoons for PCB 2.40mm
G :Metal brackets+harpoons for PCB 1.60mm
M :Metal brackets

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
30 A	Ø2.00	Ø2.40	Ø3.10
Max current power	ØA ^{+0.1} ₀	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° ±2°	0.XXX ±0.05
Appr			Product family		ECN F09-0092
				Spec ref	
rev	ecn no	dr	date		
A	LS05-0113	WPE	2005-10-11		
B	LS06-0208	LGO	2006-12-13		
C	LS07-0085	WPE	2007/03/21		
D	LS07-0213	WPE	2007/11/05		
E	F09-0092	LSA	2009/09/16		
-	-	-			
-	-	-			
		Title		Sub	Rev.
		SUB FEMALE DW US foot print		C01-8639-2309	E
		full power right angled solder			
		Catalog no		CUSTOMER	sheet 1 of 5

PDM: Rev:E

STATUS Released

Printed: Oct 01, 2010

	1	2	3	4	5	6	7	8
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	Blank Without	L insert M3 O insert UNC 4.40
PCB ACCESSORIES	A Without	A Without	A Without	M Metal brackets	M Metal brackets	M Metal brackets	M Metal bracket	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	Blank Without	L insert M3 O 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	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		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 rel			
FCI		SUB FEMALE DW US foot print full power right angled solder		eng no C01-8639-2309	Rev. E
catalog no		CUSTOMER		sheet 2 of 5	

PDM: Rev:E

STATUS: Released

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PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS700A30LF	30	200	without	without
D*LxWxS700A30LF	30	200	insert M3	without
D*OxWxS700A30LF	30	200	insert UNC 4.40	without
D*VxWxS700A30LF	30	200	female screw UNC 4.40	without
D*xWxS700H30LF	30	200	without	metal bracket+harpoon PCB 2.40mm
D*LxWxS700H30LF	30	200	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxS700H30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxS700H30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxS700G30LF	30	200	without	metal bracket+harpoon PCB 1.60mm
D*LxWxS700G30LF	30	200	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxS700G30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxS700G30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxS700M30LF	30	200	without	metal bracket
D*LxWxS700M30LF	30	200	insert M3	metal bracket
D*OxWxS700M30LF	30	200	insert UNC 4.40	metal bracket
D*VxWxS700M30LF	30	200	female screw UNC 4.40	metal bracket

shell size
#

LAYOUTS
xWx

E
A
A
B
C

2V2
3V3
3W3
5W5
8W8

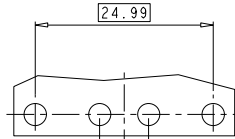
PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS743A30LF	30	500	without	without
D*LxWxS743A30LF	30	500	insert M3	without
D*OxWxS743A30LF	30	500	insert UNC 4.40	without
D*VxWxS743A30LF	30	500	female screw UNC 4.40	without
D*xWxS743H30LF	30	500	without	metal bracket+harpoon PCB 2.40mm
D*LxWxS743H30LF	30	500	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxS743H30LF	30	500	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxS743H30LF	30	500	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxS743G30LF	30	500	without	metal bracket+harpoon PCB 1.60mm
D*LxWxS743G30LF	30	500	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxS743G30LF	30	500	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxS743G30LF	30	500	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxS743M30LF	30	500	without	metal bracket
D*LxWxS743M30LF	30	500	insert M3	metal bracket
D*OxWxS743M30LF	30	500	insert UNC 4.40	metal bracket
D*VxWxS743M30LF	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 FEMALE DW US foot print full power right angled solder		Rev. E
catalog no		drawing no C01-8639-2309		sheet 3 of 5
		CUSTOMER		

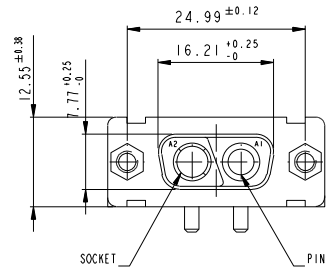
2V2

LAYOUT AND CONNECTOR DIMENSIONS

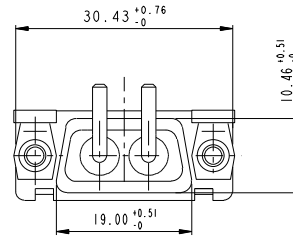
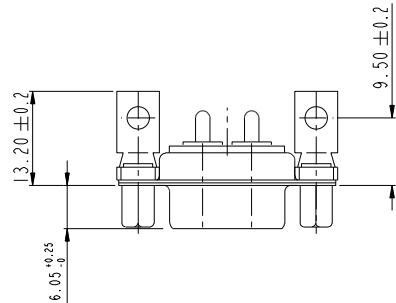
For PCB hole diameters see table 1 sheet 1



6.86



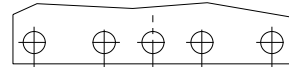
SOCKET PIN



3V3

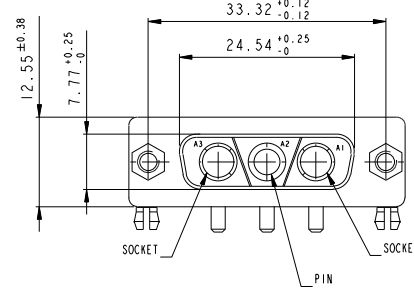
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1

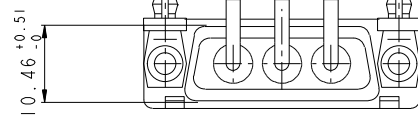
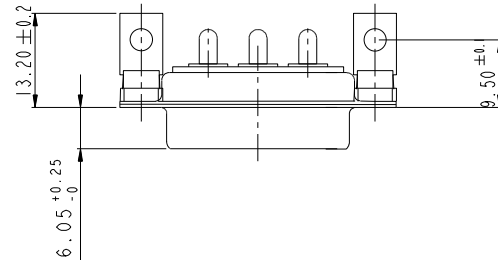


6.86

33.32



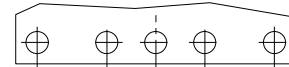
SOCKET PIN SOCKET



3W3

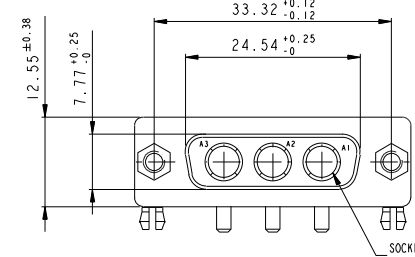
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1

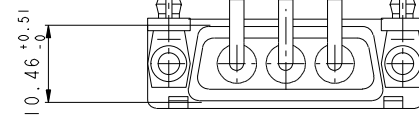
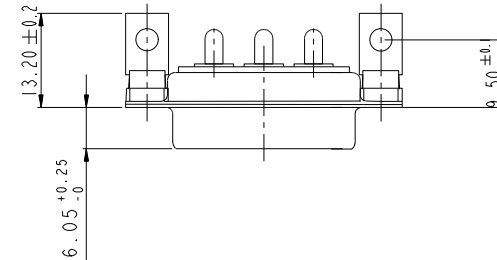


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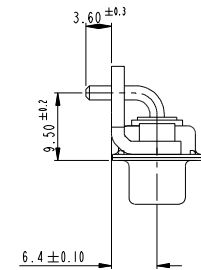
33.32



SOCKET



SIDE VIEW FOR ALL LAYOUTS



www.fciconnect.com		surface ISO 1302	tolerance std ISO 406 ISO 1101	projection mm	mm
TOLERANCES UNLESS OTHERWISE SPECIFIED		0.X	±0.3	size	
Dr	M PESSON	2005-10-11	ANGULAR	0.XX	±0.1
Eng	P LEGARE	2005-10-11	LINEAR	0.XXX	±0.05
Chr			0° ±2°	ECN	F09-0092
Appr			Product family	Spec ref	
Title		SUB FEMALE DW US foot print		Rev.	
drawing no		C01-8639-2309		sheet 4 of 5	
customer		Printed: Oct 01, 2010		STATUS Released	

A

B

C

D

E

F

A

B

C

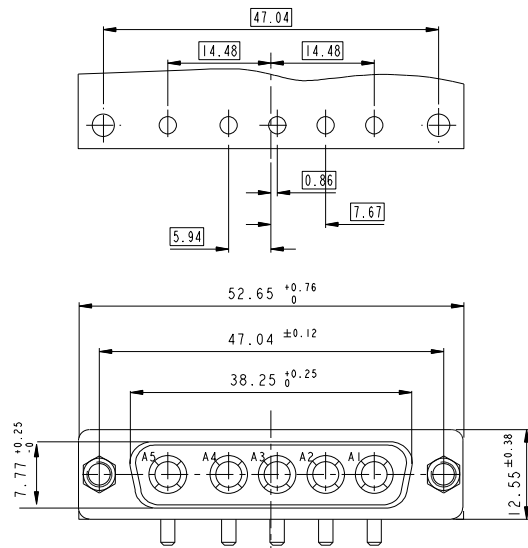
D

E

F

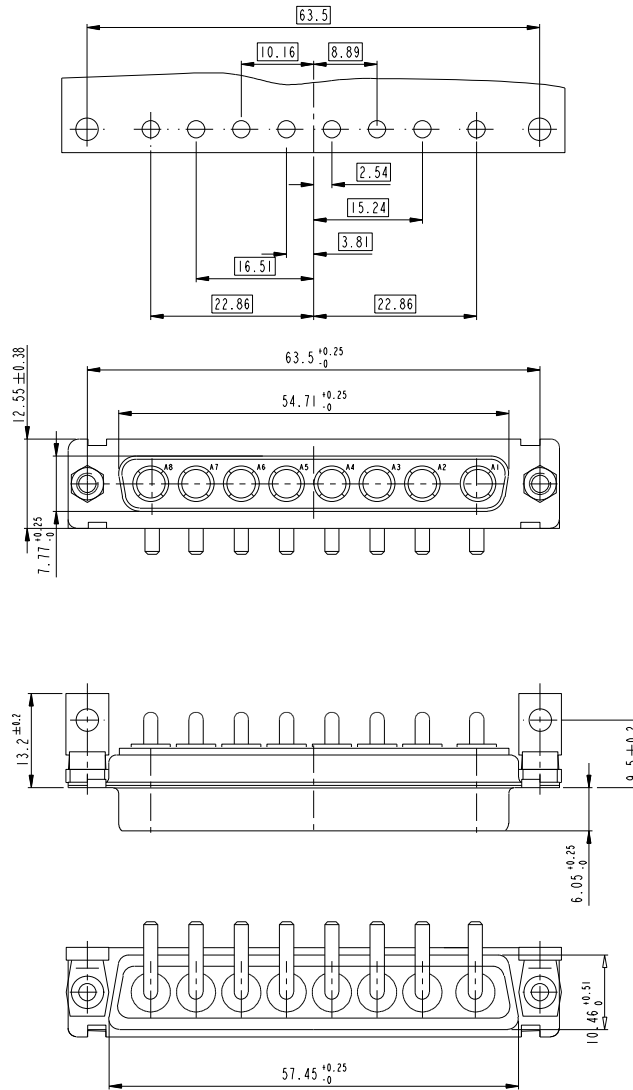
5W5

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



8W8

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		
		TOLERANCES UNLESS OTHERWISE SPECIFIED				
Dr	M PESSON	2005-10-11	ANGULAR	0.X	±0.3	size A2
Eng	P LEGARE	2005-10-11	LINEAR	0.XX	±0.1	Scale 2:1
Chr			0° ±2°	0.XXX	±0.05	ECN F09-0092
Appr			Product family	-	Spec ref	
FCI		Title SUB FEMALE DW US foot print		dag no	C01-8639-2309	Rev. E
		full power right angled solder		catalog no	CUSTOMER sheet 5 of 5	