

DBL5W5S300G30LF

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 or 40A

-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

Series

Shell size: **E A B C**

see sheet 2

Front accessory definition
see sheet 2

L : threaded insert M3

O : threaded insert UNC 4-40

V : female screw UNC 4-40

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

H : harpoons for PCB 2.40mm

G : harpoons for PCB 1.60mm

Power contacts

00 : Not fitted with power contact (signal contacts always fitted)

30 : Fitted with power contacts 30 Amp.

40 : Fitted with power contacts 40 Amp.

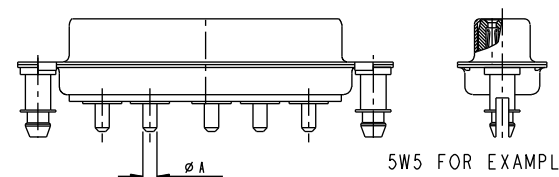
See note RoHS

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 + 3 to 10µm Sn(pure bright)
- Accessories: Sn pure bright
- Packaging spec: See GS-14-920

TABLE 1:PCB HOLE DIAMETERS

POWER CONTACTS			ACCESSORIES
30 A	2.00	ø2.40	ø3.10
40 A	2.80	3.10	
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	mm	
		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
				size	A2
				Scale	2:1
				Spec ref	
				Rev.	F

rev	ecn no	dr	date	title	sub	female dw	full power straight solder	ang no	C01-8639-2310	Rev.
A	LS05-0113	MPE	2005-10-11							
B	LS06-0208	LGO	2006-12-13							
C	LS07-0165	MPE	2007/06/14							
D	LS07-0213	MPE	2007/11/05							
E	LS09-0027	MPE	2009/01/21							
F	F09-0092	LSA	2009/09/16							



FRONT ACCESSORY	L insert M3 O insert UNC 4.40	V insert UNC 4.40	L insert M3 O insert UNC 4.40	V insert UNC 4.40
PCB ACCESSORIES	G Harpoon for PCB 1.60mm	G Harpoon for PCB 1.60mm	H Harpoon for PCB 2.40mm	H Harpoon for PCB 2.40mm

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*LxWxS300G30LF	30	200	insert M3	harpoon PCB 1.60mm
D*OxWxS300G30LF	30	200	insert UNC 4.40	harpoon PCB 1.60mm
D*VxWxS300G30LF	30	200	female screw UNC 4.40	harpoon PCB 1.60mm
D*LxWxS300H30LF	30	200	insert M3	harpoon PCB 2.40mm
D*OxWxS300H30LF	30	200	insert UNC 4.40	harpoon PCB 2.40mm
D*VxWxS300H30LF	30	200	female screw UNC 4.40	harpoon PCB 2.40mm
D*LxWxS300G40LF	40	200	insert M3	harpoon PCB 1.60mm
D*OxWxS300G40LF	40	200	insert UNC 4.40	harpoon PCB 1.60mm
D*VxWxS300G40LF	40	200	female screw UNC 4.40	harpoon PCB 1.60mm
D*LxWxS300H40LF	40	200	insert M3	harpoon PCB 2.40mm
D*OxWxS300H40LF	40	200	insert UNC 4.40	harpoon PCB 2.40mm
D*VxWxS300H40LF	40	200	female screw UNC 4.40	harpoon PCB 2.40mm

shell size LAYOUTS

*
E 2V2
A 3V3
A 3W3
B 5W5
C 8W8

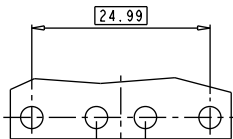
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D*LxWxS343G30LF	30	500	insert M3	harpoon PCB 1.60mm
D*OxWxS343G30LF	30	500	insert UNC 4.40	harpoon PCB 1.60mm
D*VxWxS343G30LF	30	500	female screw UNC 4.40	harpoon PCB 1.60mm
D*LxWxS343H30LF	30	500	insert M3	harpoon PCB 2.40mm
D*OxWxS343H30LF	30	500	insert UNC 4.40	harpoon PCB 2.40mm
D*VxWxS343H30LF	30	500	female screw UNC 4.40	harpoon PCB 2.40mm
D*LxWxS343G40LF	40	500	insert M3	harpoon PCB 1.60mm
D*OxWxS343G40LF	40	500	insert UNC 4.40	harpoon PCB 1.60mm
D*VxWxS343G40LF	40	500	female screw UNC 4.40	harpoon PCB 1.60mm
D*LxWxS343H40LF	40	500	insert M3	harpoon PCB 2.40mm
D*OxWxS343H40LF	40	500	insert UNC 4.40	harpoon PCB 2.40mm
D*VxWxS343H40LF	40	500	female screw UNC 4.40	harpoon PCB 2.40mm

SCALE: 4

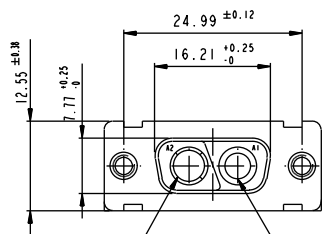
www.fciconnect.com		surface ISO 1302	tolerance std ISO 406 ISO 1101	projection mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED		
Dr	M PESSON	2005-10-11	ANGULAR	size A2
Eng	P LEGARE	2005-10-11	LINEAR	Scale 2:1
Chr			0° ±2°	ECN F09-0092
Appr			Product family	Spec ref

FCI	title SUB FEMALE DW	desig no C01-8639-2310	Rev. F
	full power straight solder		

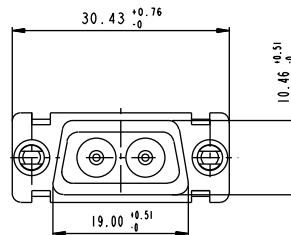
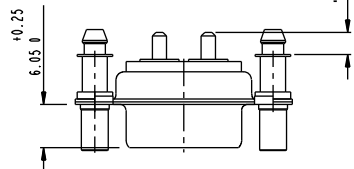
2V2

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

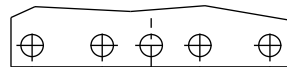
6.86



SOCKET PIN

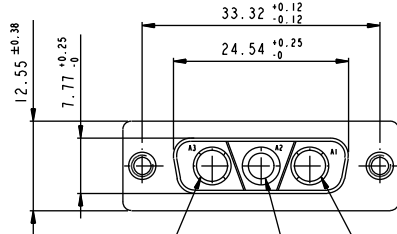


3V3

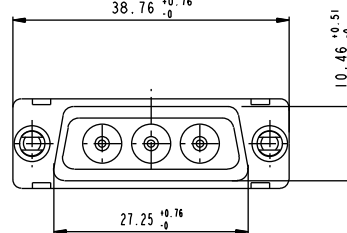
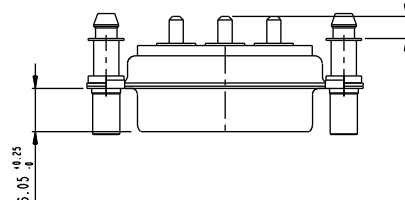
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table 1 sheet 1

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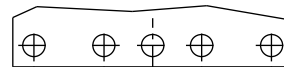
33.32



SOCKET PIN SOCKET

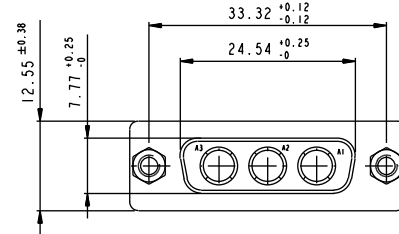


3W3

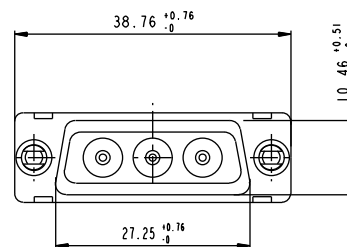
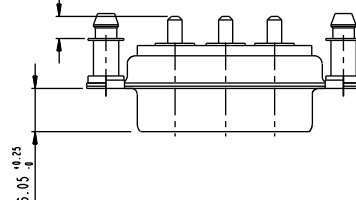
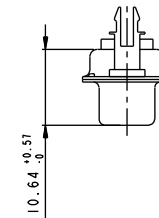
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table 1 sheet 1

6.86

33.32



"A" see table

SIDE VIEW FOR
LAYOUTS: E A B C

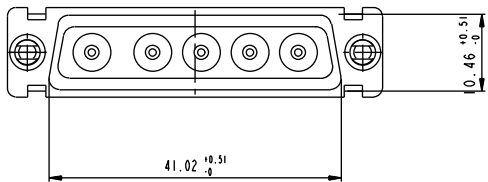
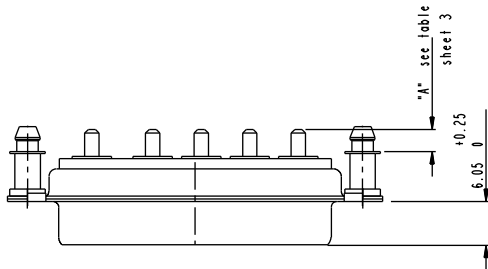
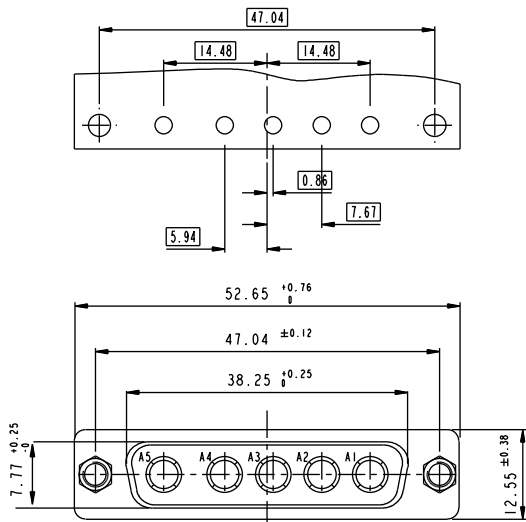
Cote "A"

30A	3.1±0.25
40A	3.6±0.25

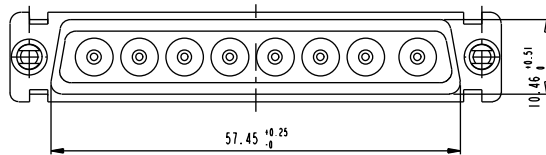
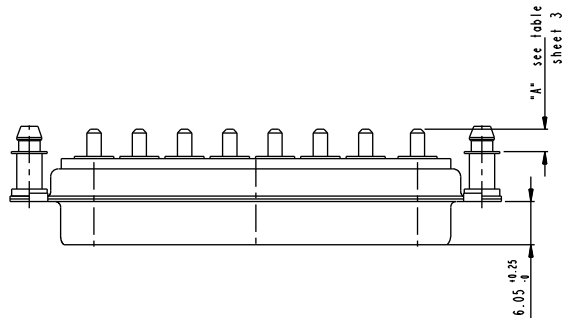
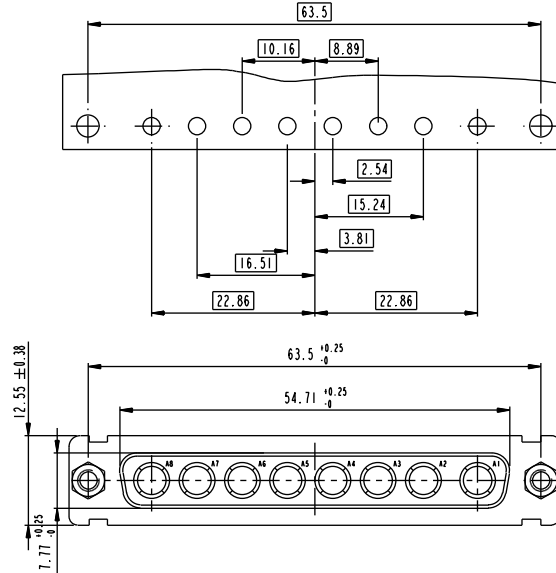
www.fciconnect.com		surface ISO 1302	tolerance std ISO 406 ISO 1101	projection mm	mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED		size A2	Scale 2:1
Dr	M PESSON	2005-10-11	ANGULAR	0.X	±0.3
Eng	P LEGARE	2005-10-11	LINEAR	0.XX	±0.1
Chr			0° ±2°	0.XXX	±0.05
Appr			Product family	Spec ref	ECN F09-0092

FCI		title SUB FEMALE DW	part no C01-8639-2310	Rev. F
full power straight solder		CUSTOMER		Sheet 3 of 4

5W5 LAYOUT AND CONNECTOR DIMENSIONS For PCB hole diameters see table 1 sheet 1



8W8 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	size A2		Scale 2:1
Dr M PESSON 2005-10-11		TOLERANCES UNLESS OTHERWISE SPECIFIED		size A2		Scale 2:1	
Eng P LEGARE 2005-10-11		ANGULAR	0.X ±0.3	size A2		Scale 2:1	
Chr		LINEAR	0.XX ±0.1	size A2		Scale 2:1	
Appr		0° ±2°	0.XXX ±0.05	size A2		Scale 2:1	
Product family		Spec ref		size A2		Scale 2:1	

Title SUB FEMALE DW		C01-8639-2310		Rev. F
full power straight solder		CUSTOMER		Printed: Jun 20, 2015