

DBL5W5S700G30LF

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

Series

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

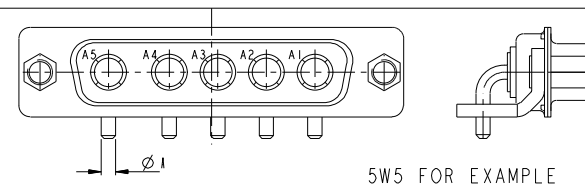
A :without accessory
H :Metal brackets+harpoons for PCB 2.40mm
G :Metal brackets+harpoons for PCB 1.60mm
M :Metal brackets

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



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

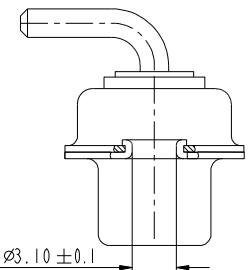
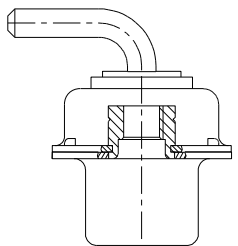
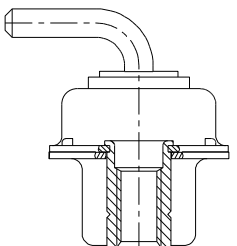
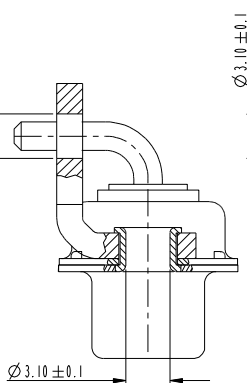
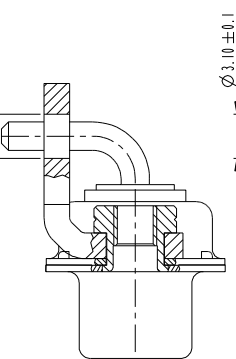
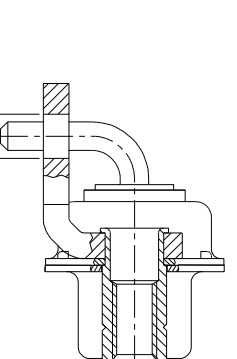
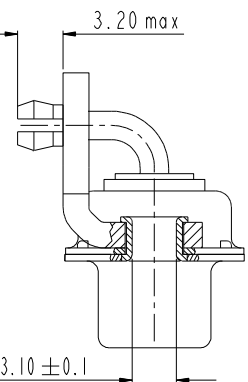
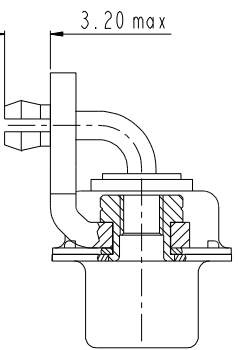
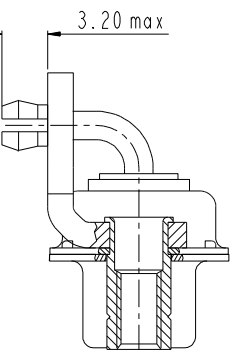
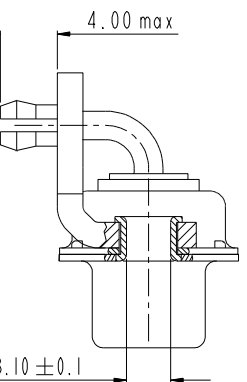
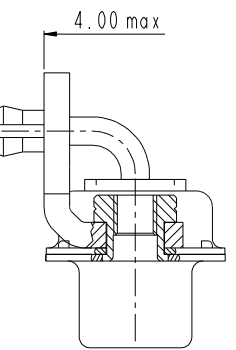
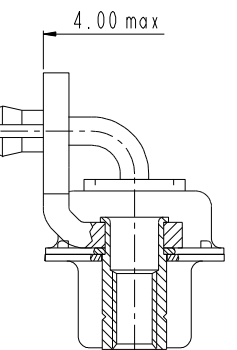
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B	LS06-0208	LGO	2006-12-13	Chr			0° ±2°	0.XX ±0.1	0.XXX ±0.05	ECN	F09-0092
C	LS07-0085	WPE	2007/03/21	Appr			Product family			Spec ref	
D	LS07-0213	WPE	2007/11/05								
E	F09-0092	LSA	2009/09/16								
-	-	-	-								
-	-	-	-								

FCI	title	SUB FEMALE DW US foot print	cat no	C01-8639-2309	Rev.	E
	full power right angled solder					
	customer	sheet 1 of 5				

PDM: Rev:E

STATUS Released

Printed: Oct 01, 2010

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

SCALE:4

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

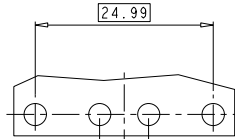
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D*xWxS743A30LF	30	500	without	without
D*LxWxS743A30LF	30	500	insert M3	without
D*OxWxS743A30LF	30	500	insert UNC 4.40	without
D*VxWxS743A30LF	30	500	female screw UNC 4.40	without
D*xWxS743H30LF	30	500	without	metal bracket+harpoon PCB 2.40mm
D*LxWxS743H30LF	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		

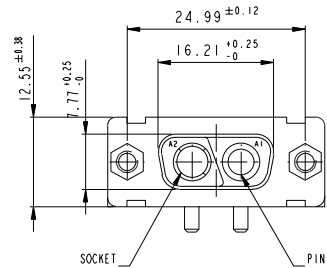
2V2

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1

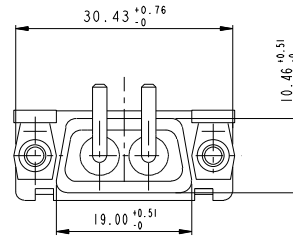
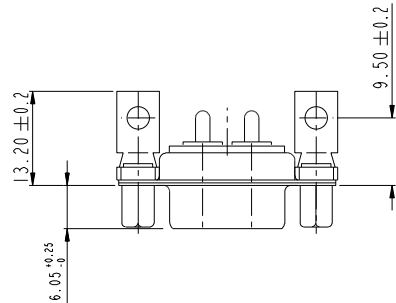


6.86



SOCKET

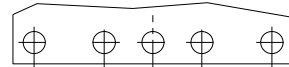
PIN



3V3

LAYOUT AND CONNECTOR DIMENSIONS

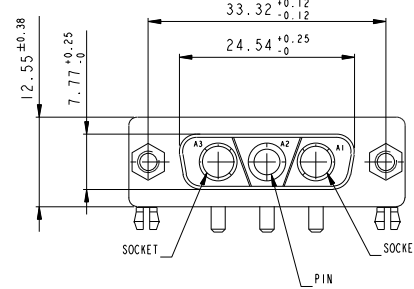
For PCB hole diameters see table 1 sheet 1



6.86

6.86

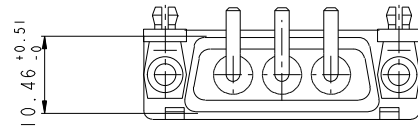
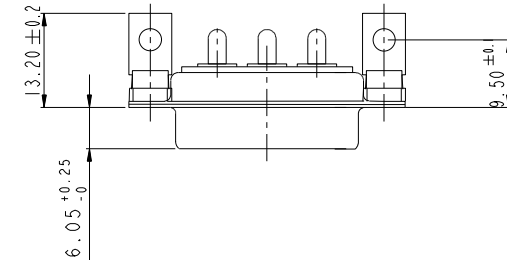
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SOCKET

PIN

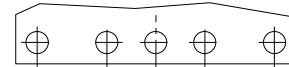
SOCKET



3W3

LAYOUT AND CONNECTOR DIMENSIONS

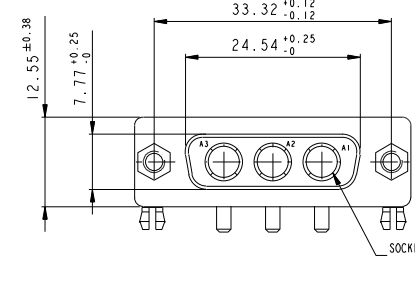
For PCB hole diameters see table 1 sheet 1



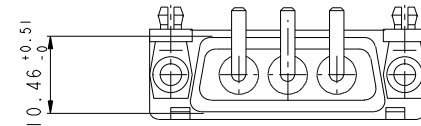
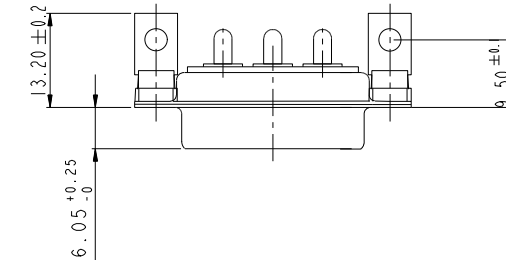
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6.86

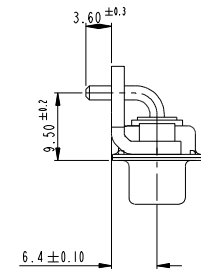
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SOCKET



SIDE VIEW FOR ALL LAYOUTS



www.fciconnect.com		surface ISO 1302	tolerance std ISO 406 ISO 1101	projection mm	mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED			
Dr	M PESSON	2005-10-11	ANGULAR	0.X ±0.3	size
Eng	P LEGARE	2005-10-11	LINEAR	0.XX ±0.1	Scale
Chr			0° ±2°	0.XXX ±0.05	ECN F09-0092
Appr			Product family	Spec ref	Rev.
FCI		SUB FEMALE DW US foot print		C01-8639-2309	E
		full power right angled solder			
catalog no		CUSTOMER		sheet 4 of 5	

A

B

C

D

E

F

A

B

C

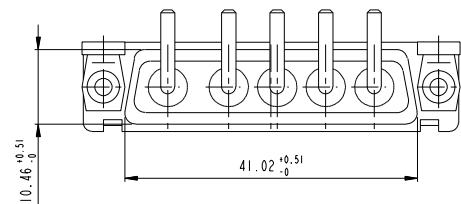
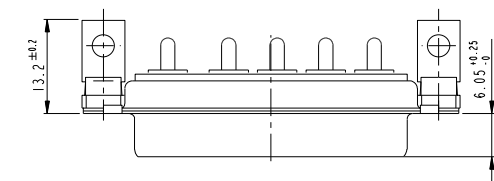
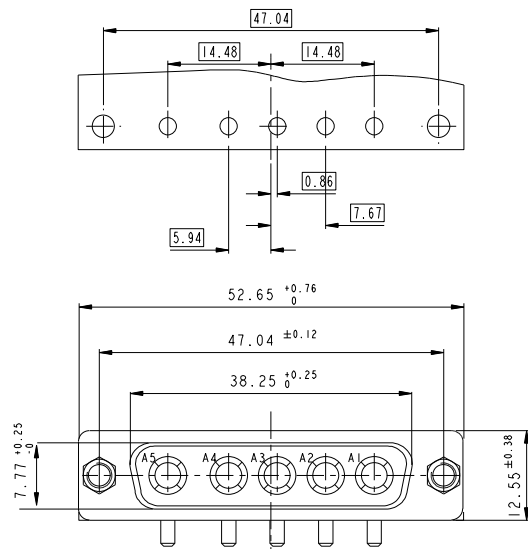
D

E

F

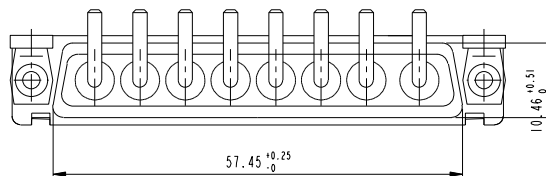
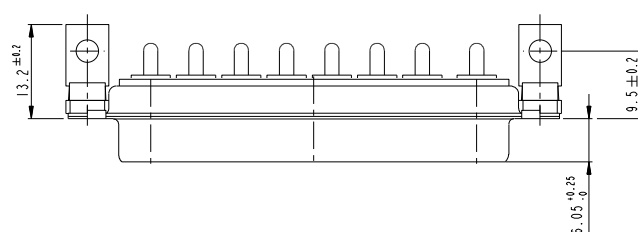
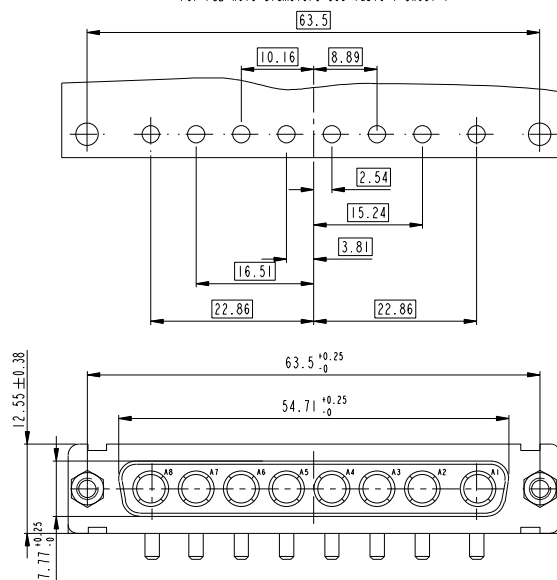
5W5

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	