

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

DBL5W5P700G30LF

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

P :Pin

Termination type
7 Right angle/USA

Plating

00 200 matings/unmatings
43 500 matings/unmatings

PCB accessories definition
see sheet 2

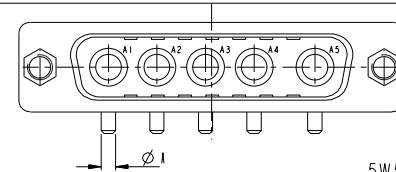
A :without accessory
H :Metal brackets+harpoons for PCB 2.40mm
G :Metal brackets+harpoons for PCB 1.60mm
M :Metal brackets

Power contacts

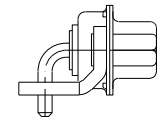
00 :Not fitted with power contact (signal contacts always fitted)
30 :Fitted with power contacts 30 Amp.

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



5W5 FOR EXAMPLE



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.XXX	±0.05
Appr			Product family	ECN	F09-0092
				Spec ref	

rev	ecn no	dr	date	title	sub	male	dw	us	foot	print	ang	no	Rev.
A	LS05-0113	WPE	2005-10-11										
B	LS06-0208	LGO	2006-12-13										
C	LS07-0273	WPE	2007/11/05										
D	F09-0092	LSA	2009/09/16										
-	-	-	-										
-	-	-	-										
-	-	-	-										

PDM-REV:D

STATUS Released

Printed: Apr 28, 2015

A

B

C

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A

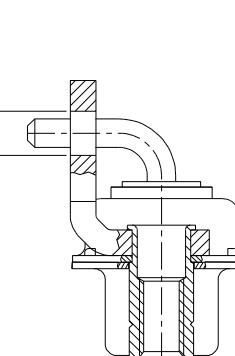
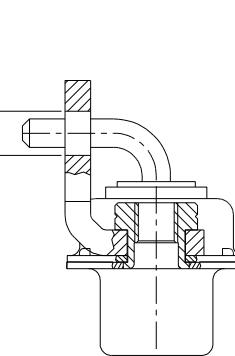
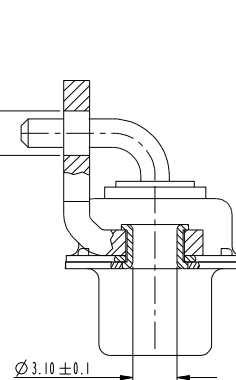
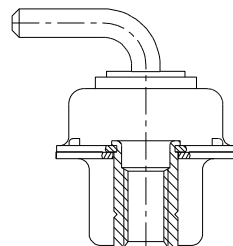
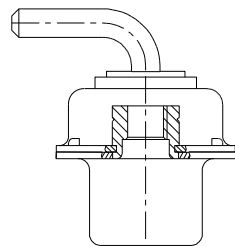
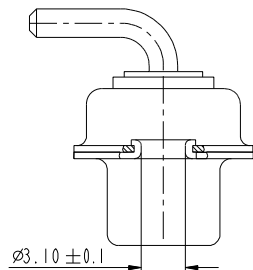
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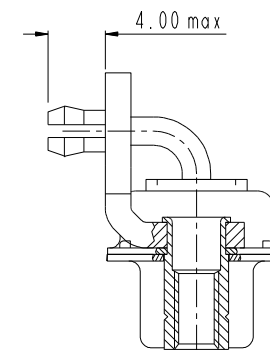
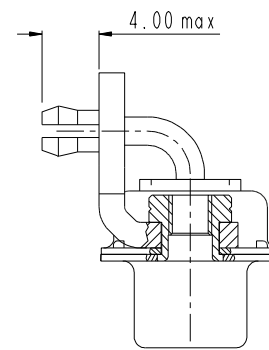
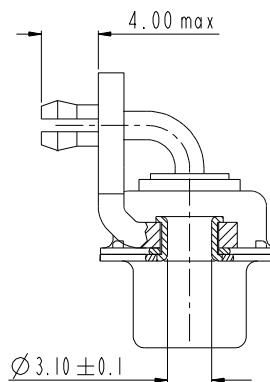
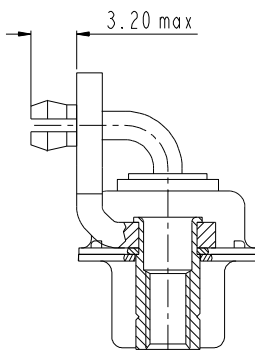
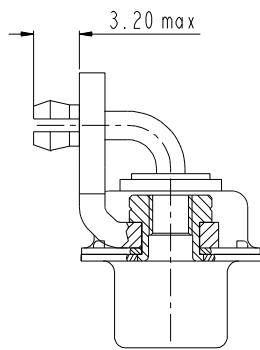
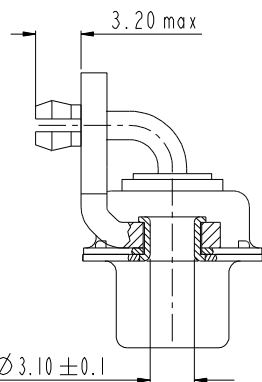
D

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
PCB ACCESSORIES	A Without	A Without	A Without	M Metal brackets	M Metal brackets	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
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

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 ref	

FCI	SUB MALE DW US foot print	ang no	C01-8639-2313	Rev.	D
full power right angled solder		CUSTOMER		Sheet 2 of 5	

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

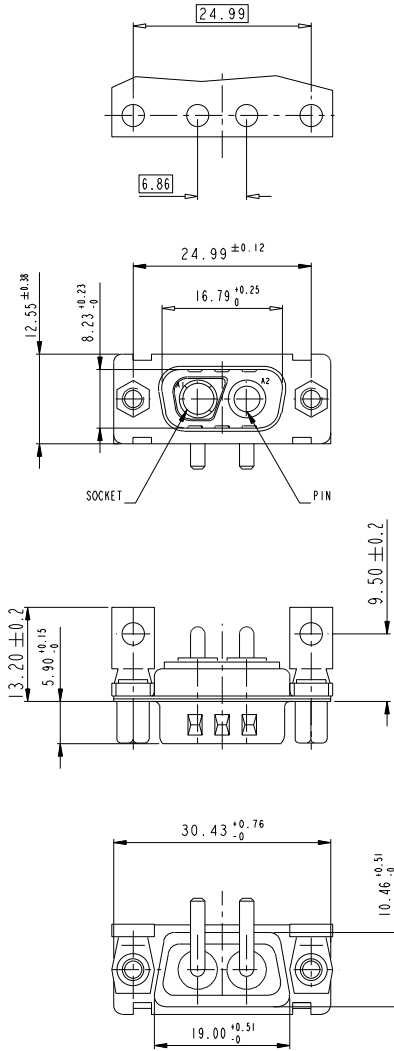
shell size * LAYOUTS
xWx

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

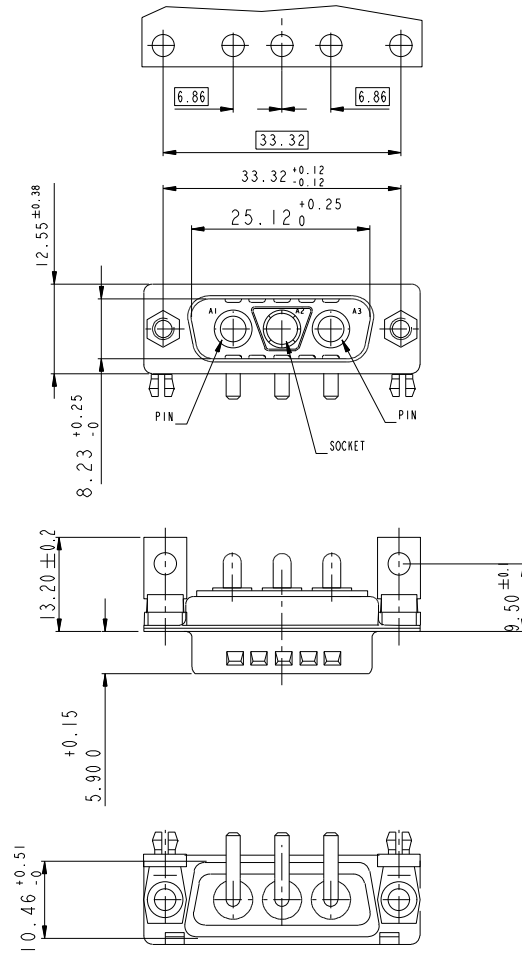
PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP743A30LF	30	500	without	without
D*LxWxP743A30LF	30	500	insert M3	without
D*OxWxP743A30LF	30	500	insert UNC 4.40	without
D*VxWxP743A30LF	30	500	female screw UNC 4.40	without
D*xWxP743H30LF	30	500	without	metal bracket+harpoon PCB 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

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 MALE DW US foot print full power right angled solder		Rev. D
drawing no		C01-8639-2313		Sheet 3 of 5
CUSTOMER		Printed: Apr 28, 2015		

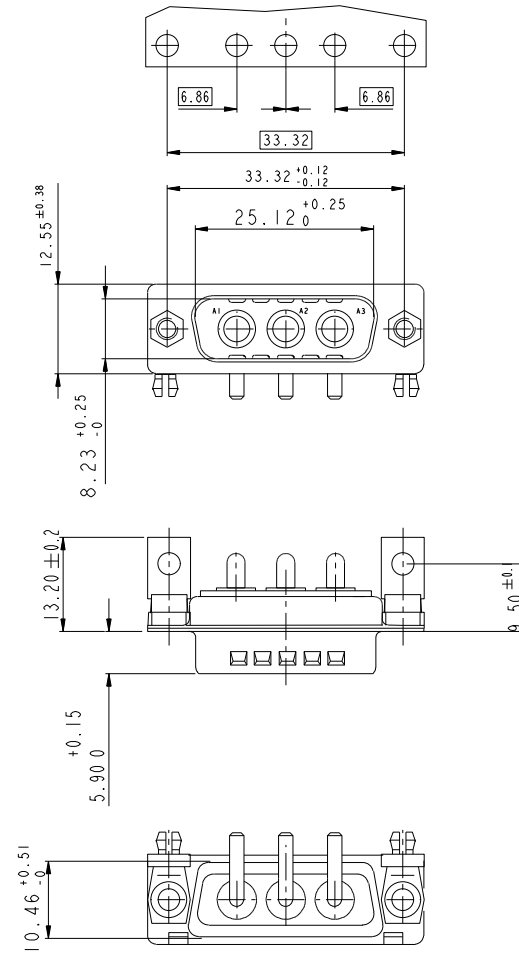
2V2

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

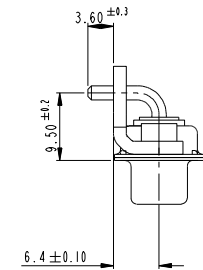
3V3

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

3W3

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

SIDE VIEW FOR ALL LAYOUTS



www.fciconnect.com		surface ISO 1302	tolerance std ISO 406 ISO 1101	projection mm	mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED		size A2	
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	

SUB MALE DW US foot print		C01-8639-2313		Rev.
full power right angled solder				D

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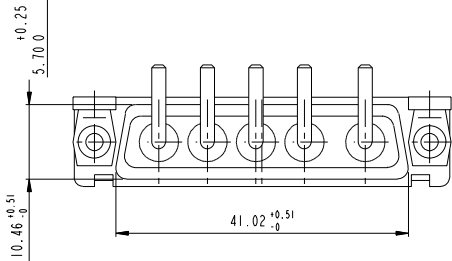
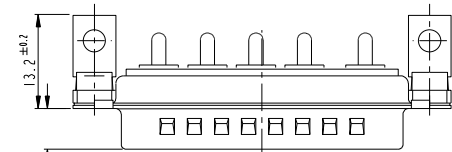
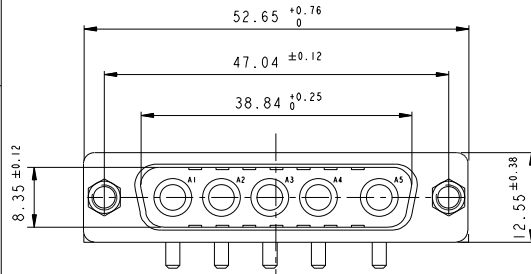
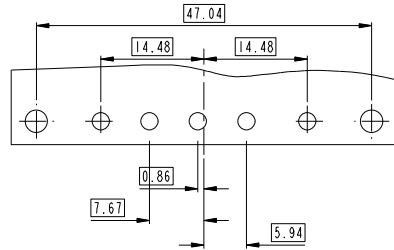
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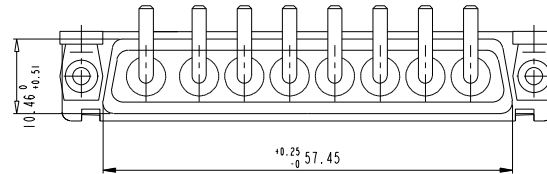
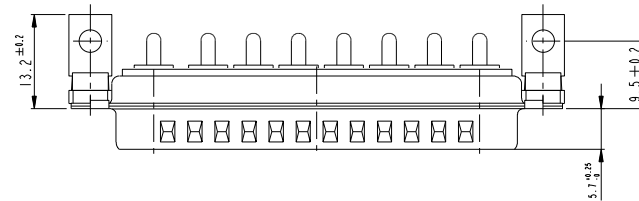
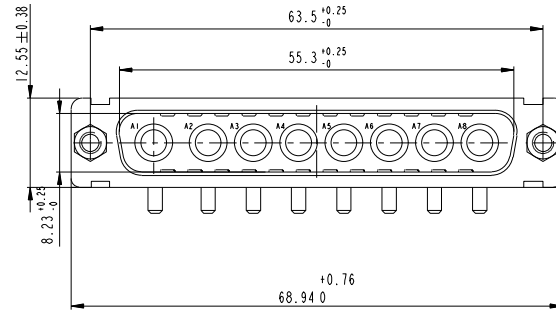
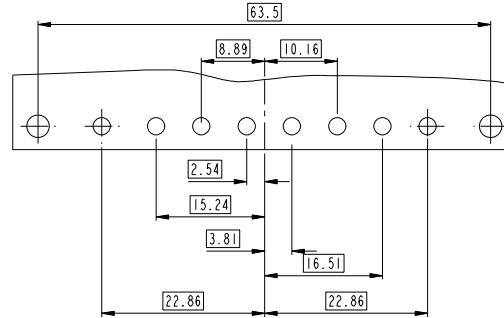
5W5

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



1

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A

B

C

D

E

F

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	A2	Scale 2:1
Eng	P LEGARE	2005-10-11	LINEAR	0.XX ±0.1			
Chr			0° ±2°	0.XXX ±0.05	ECN	F09-0092	
Appr			Product family		Spec ref		

FCI		Title SUB MALE DW US foot print		drawing no C01-8639-2313		Rev. D
full power right angled solder				CUSTOMER		Sheet 5 of 5