

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 mOhms

-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 10µmm Sn(pure bright)
- Accessories: Sn pure bright + nickel
- Packaging spec: See GS-14-920

DBL5W5S500G30LF

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

I :female screw M3

Layout of contacts (see sheet 3)

Contacts

S :Socket

Termination type

5 Right angle/Europe standard

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

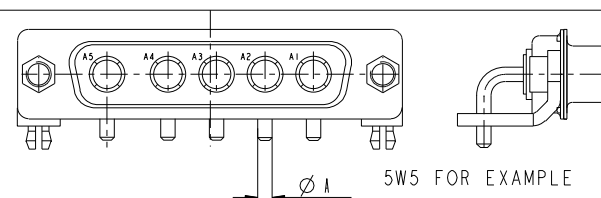
00 :Not fitted with power contact (signal contacts always fitted)

30 :Fitted with power contacts 30 Amp.

40 :Fitted with power contacts 40 Amp.

TABLE 1:PCB HOLE DIAMETERS

POWER CONTACTS			ACCESSORIES
30 A	2.00	Ø2.40	Ø3.10
40 A	2.80	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.XXX	±0.05
Appr			Product family		Spec ref
				size	A2
				Scale	2:1
				ECN	F09-0092

rev	ecn no	dr	date	title	sub	family	product	customer	sheet	total
A	L505-0113	MPE	2005-10-11	SUB FEMALE DW EUROPE foot print	full power right angled solder			C01-8639-2308	4	4
B	L506-0208	LGO	2006-12-13							
C	L507-0213	MPE	2007-10-31							
D	F09-0083	LSA	2009-07-15							
E	F09-0092	LSA	2009-09-16							
-	-	-	-							
-	-	-	-							

PDM-REV-E

STATUS Released

Printed: Apr 28, 2015

	I	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 Female screw UNC 4.40 I Female screw M3	Blank Without	L insert M3 O insert UNC 4.40	V Female screw UNC 4.40 I Female screw M3
PCB ACCESSORIES	A Without	A Without	A Without	M Metal brackets	M Metal brackets	M Metal bracket

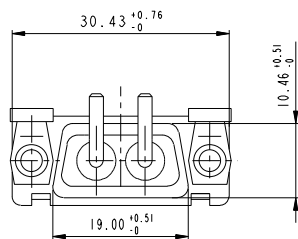
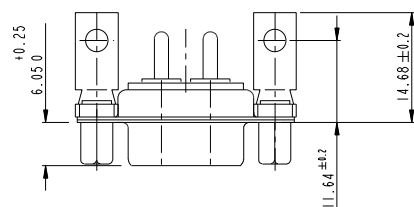
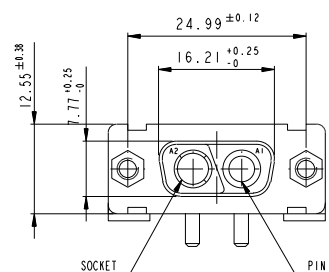
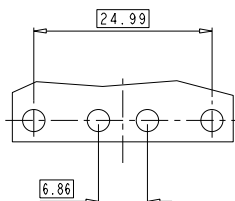
FRONT ACCESSORY	Blank Without	L insert M3 O insert UNC 4.40	V Female screw UNC 4.40 I Female screw M3	Blank Without	L insert M3 O insert UNC 4.40	V Female screw UNC 4.40 I Female screw M3
PCB ACCESSORIES	G Metal brackets + harpoons for PCB 1.60mm	G Metal brackets + harpoons for PCB 1.60mm	G Metal brackets + 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

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 EUROPE foot print full power right angled solder		Rev. E

2V2

LAYOUT AND CONNECTOR DIMENSIONS

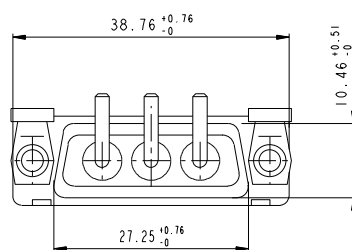
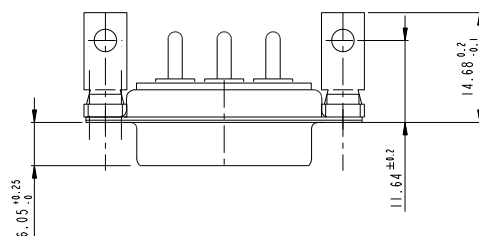
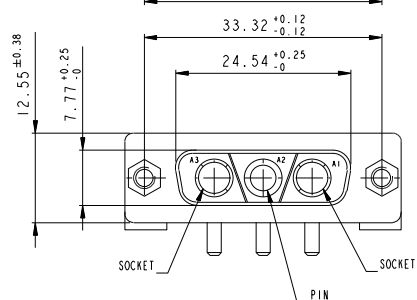
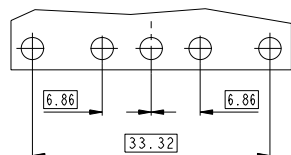
For PCB hole diameters see table 1 sheet 1



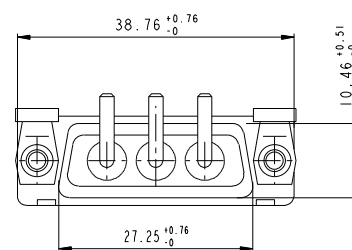
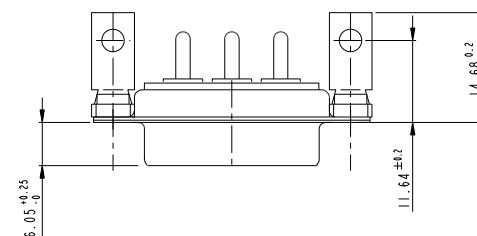
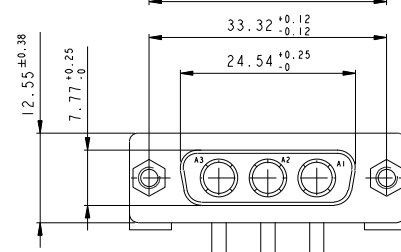
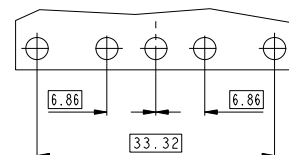
3V3

LAYOUT AND CONNECTOR DIMENSIONS

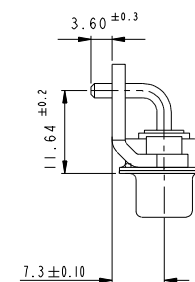
For PCB hole diameters see table 1 sheet 1



3W3



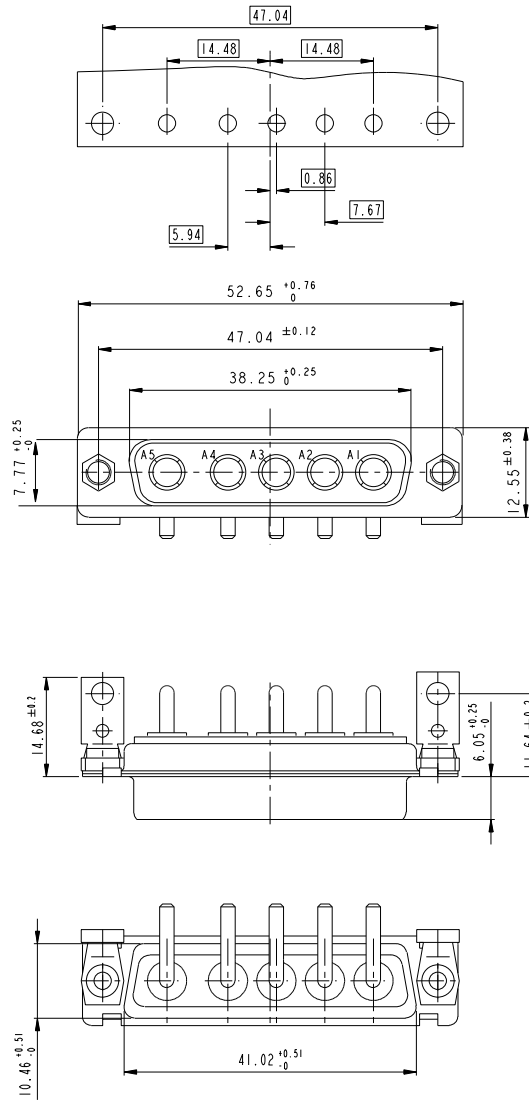
SIDE VIEW FOR ALL LAYOUTS



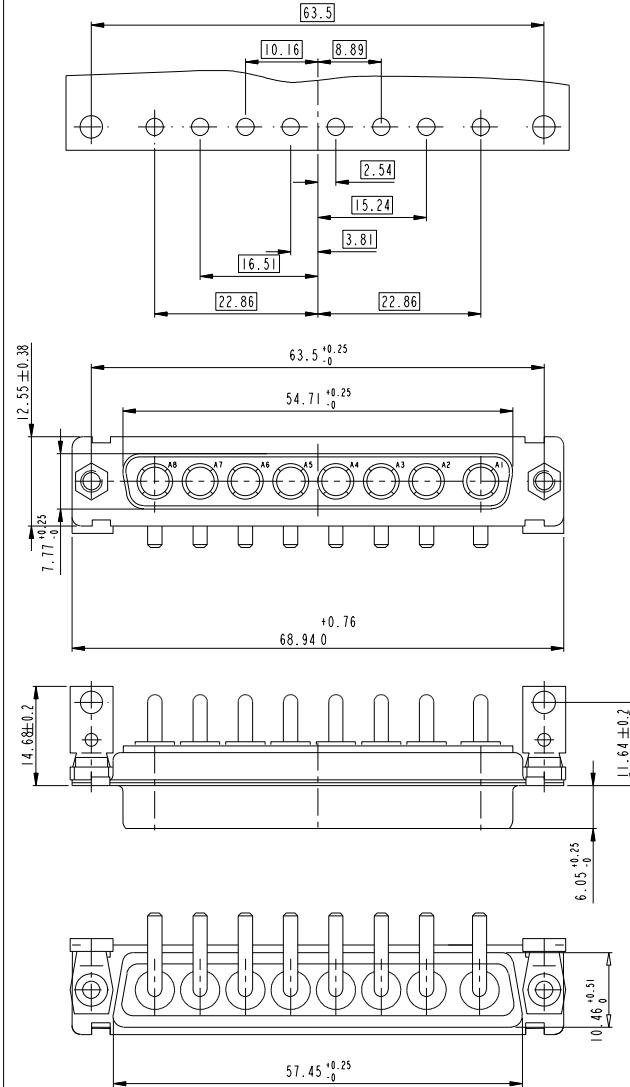
www.fciconnect.com		surface ISO 1302	tolerance std ISO 406 ISO 1101	projection mm	
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Chr			0° ±2°	0.XXX	±0.05
Appr			Product family	ECN	F09-0092
				Spec ref	

FCI		title SUB FEMALE DW EUROPE foot print	part no C01-8639-2308	Rev. E
		full power right angled solder		
		CUSTOMER		Sheet 3 of 4

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 EUROPE foot print	eng no	C01-8639-2308	Rev.	E
		material	full power right angled solder	CUSTOMER		Sheet 4 of 4	