

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

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

P Pin

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

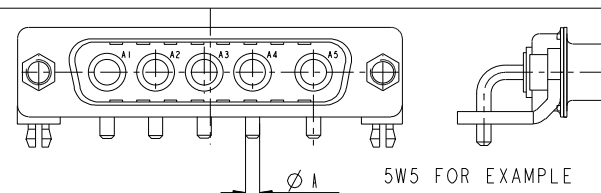
00 :Not fitted with power contact (signal contacts always fitted)

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	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.XXX	±0.05
Appr			Product family		Spec ref
				size	A2
				Scale	2:1
				ECN	F09-0092

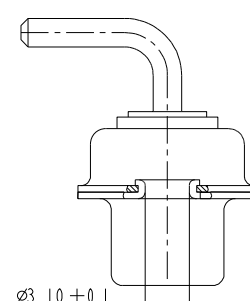
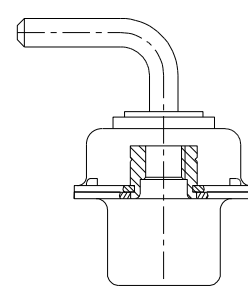
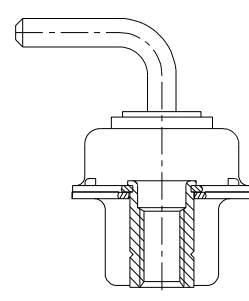
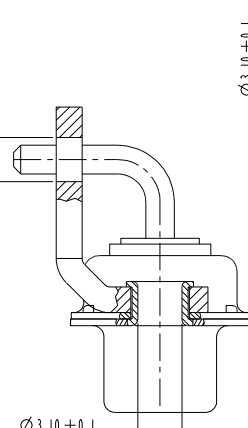
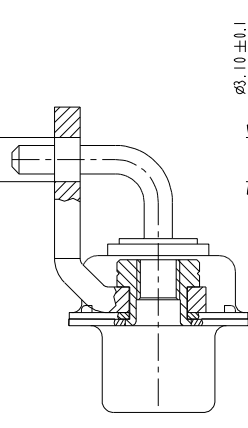
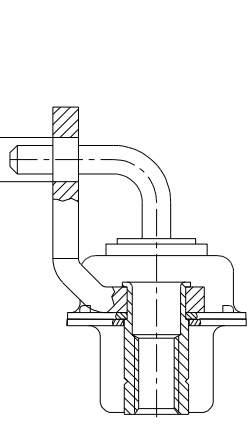
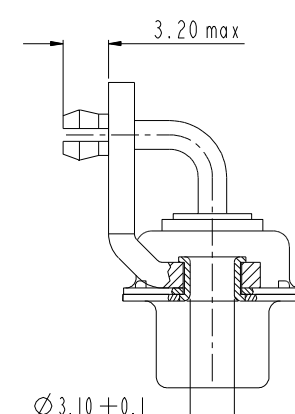
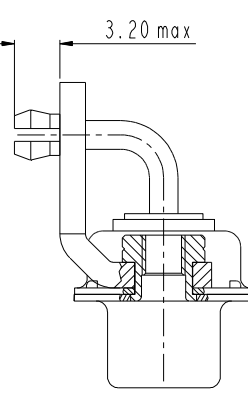
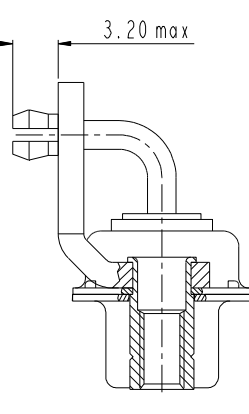
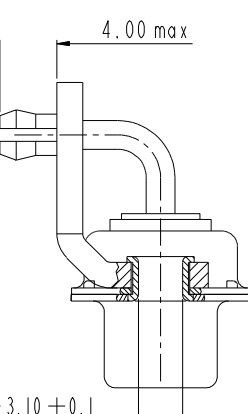
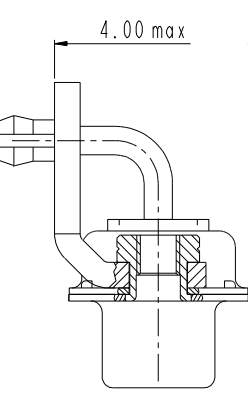
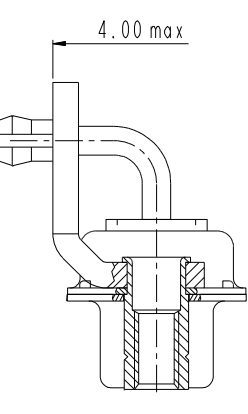
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B	LS06-0208	LGO	2006-12-13						
C	LS07-0273	MPE	2007/11/05						
D	F09-0063	LSA	2009-07-15						
E	F09-0092	LSA	2009/09/16						

PDM-REV-E

STATUS Released

Printed: Apr 28, 2015

A
B
C
D
E
F

	1	2	3	4	5	6	7	8				
												
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	

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Dr M PESSON 2005-10-11

Eng P LEGARE 2005-10-11

Chr

Appr

surface
ISO 1302

TOLERANCES UNLESS OTHERWISE SPECIFIED

ANGULAR

0° ± 2°

Product family

tolerance std
ISO 406 ISO 1101

0.X ± 0.3

0.XX ± 0.1

0.XXX ± 0.05

Projection
ISO 1101

size A2

ECN F09-0092

Spec ref

mm

Scale 2:1

FCI

title SUB MALE DW EUROPE foot print

full power right angled solder

eng no C01-8639-2312

Rev. E

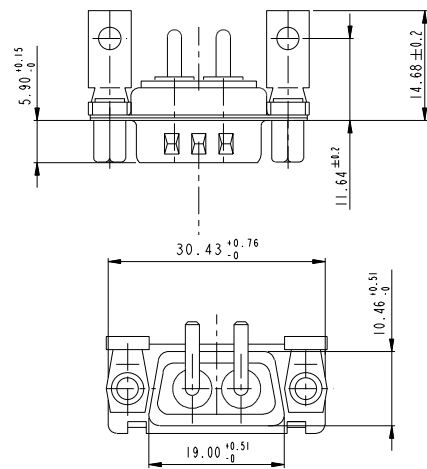
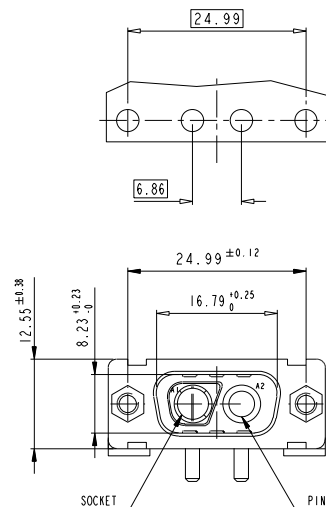
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sheet 2 of 4

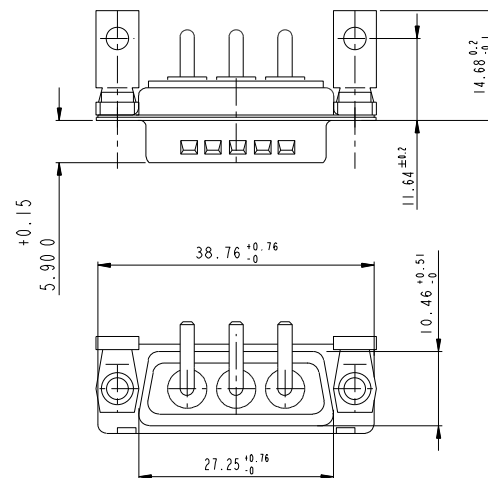
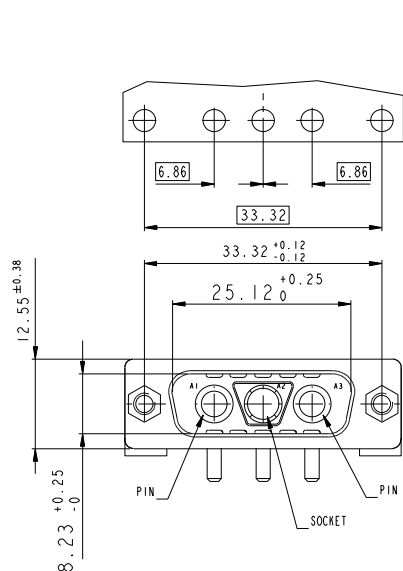
SCALE: 4

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		SUB MALE DW EUROPE foot print full power right angled solder		Rev. E
drawing no		C01-8639-2312		Sheet 2 of 4
CUSTOMER		Printed: Apr 28, 2015		

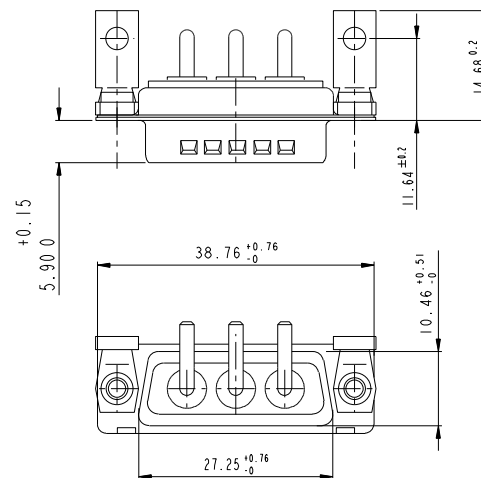
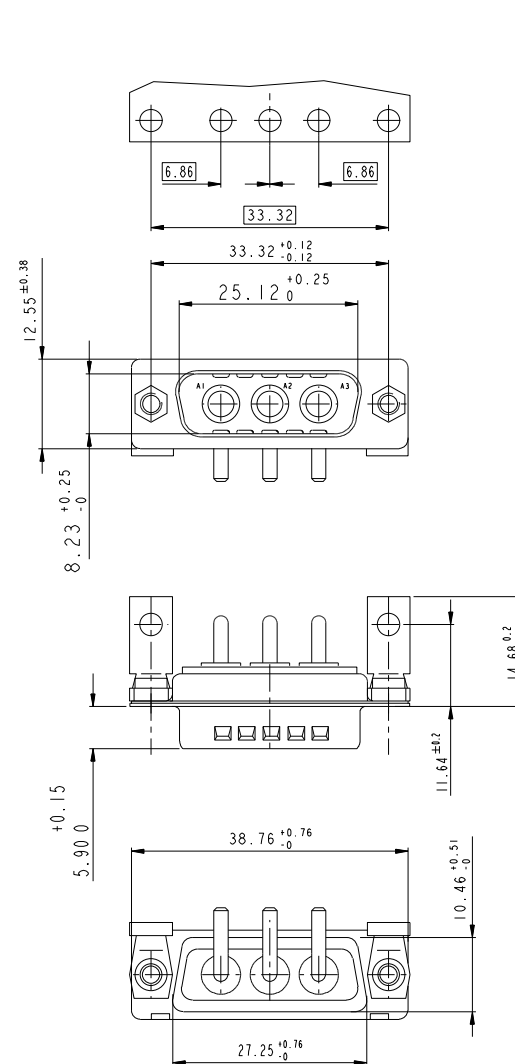
2V2

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

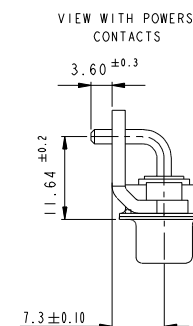
3V3

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

3W3



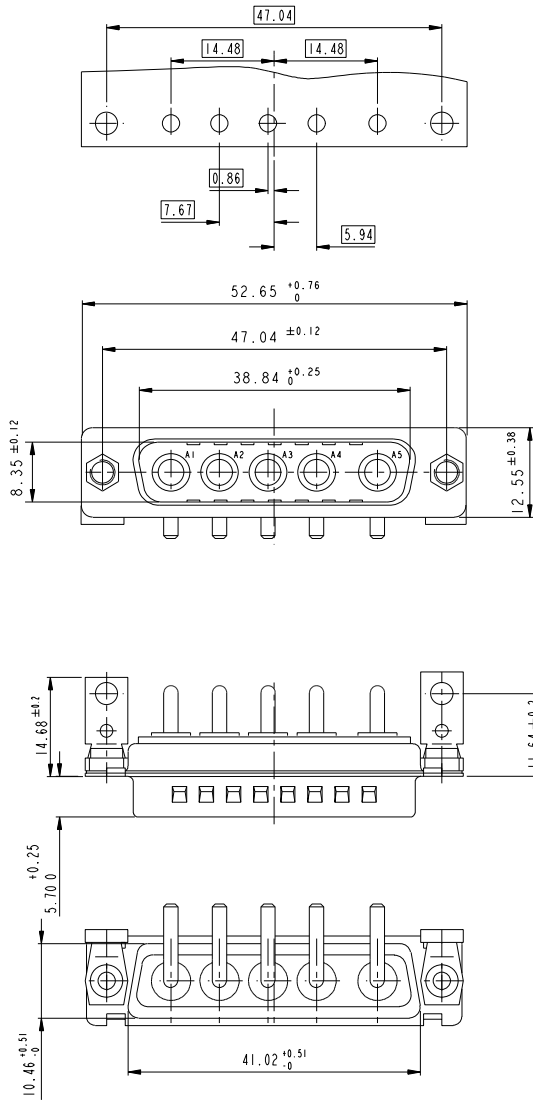
SIDE VIEW FOR ALL LAYOUTS



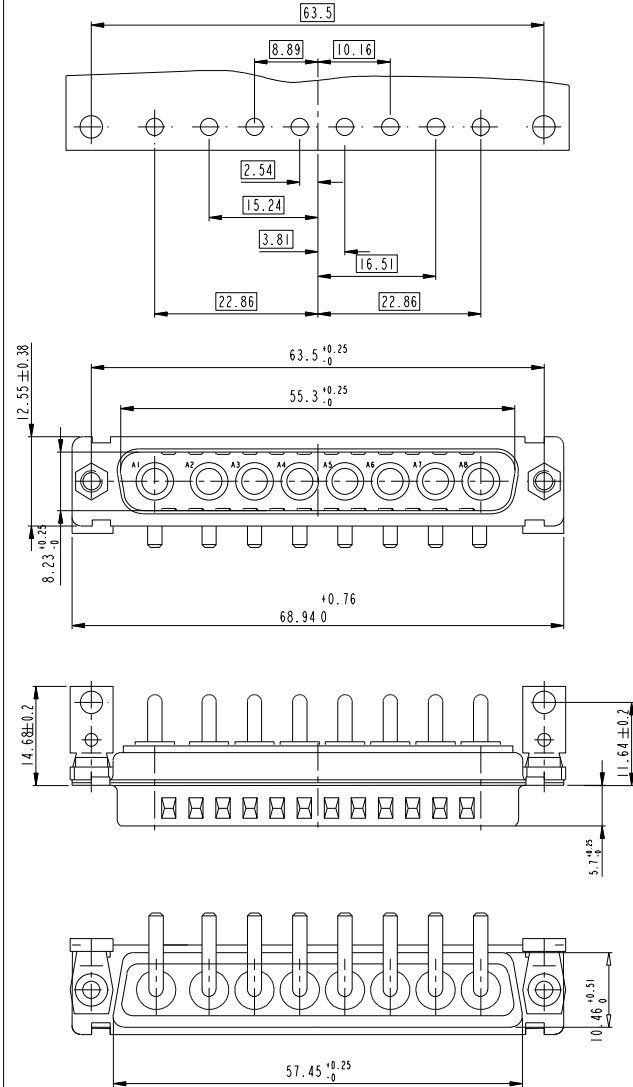
www.fciconnect.com		surface ISO 1302	tolerance std ISO 406 ISO 1101	projection mm	mm
TOLERANCES UNLESS OTHERWISE SPECIFIED		0.X	±0.3	size	
Dr	M PESSON	2005-10-11	ANGULAR	0.XX	±0.1
Eng	P LEGARE	2005-10-11	LINEAR	0.XXX	±0.05
Chr			0° ±2°	ECN	F09-0092
Appr			Product family	Spec ref	

FCI		title	SUB MALE DW EUROPE foot print	part no	C01-8639-2312	Rev.	E
full power right angled solder		drawing no		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	size A2
Eng	P LEGARE	2005-10-11	LINEAR	Scale 2:1
Chr			0° ±2°	ECN F09-0092
Appr			Product family	Spec ref

Title SUB MALE DW EUROPE foot print full power right angled solder		part no C01-8639-2312	Rev. E
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