

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: 40A

-CONTACT RESISTANCE: <= 7.3 mOhms

-CONTACT/CONTACT : >=1000 V

-CONTACT/GROUND : >=1200 V

-INSULATION RESISTANCE: >=5000 MOhms

- CLIMATIC CATEGORY: 55/125/21

TEMPERATURE RANGE -55°C TO +125°C

DAMP HEAT STEADY STATE 21 DAYS

SALT SPRAY 24 HOURS

- RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m minimum

- Female screw : 0.5 N.m minimum

PRESS FIT PERFORMANCES

PRESS FIT CONTACTS	
INSERTION FORCE	<= 200 N
Average insertion 160N	
EXTRACTION FORCE	>= 30 N

NOTE RoHS INFORMATION

- The "LF" products meet european union Directives and other country regulations as described in GS-22-008.
- Termination plating spec:
 - Ni 1.27µm+Sn 0.5 to 1.5µ(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

DBL5W5S80C5M40LF

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 sheet 3)

Contacts

S :Socket

Termination type

80C Right angle/US foot print

Plating

5 200 matings/unmatings

6 500 matings/unmatings

PCB accessories definition(see sheet 2)

M Metal brackets

A Without accessory

Power contacts

40 :Fitted with power contacts 40 Amp.

See note RoHS

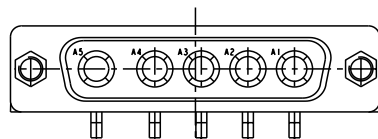
TABLE 1:PCB HOLE DIAMETERS

P.C.B HOLE DEFINITION (NOTE 1 AND 2)	SnPb holes for CONTACTS		Sn holes for CONTACTS		holes ACCESSORIES
	DRILL DIAMETER	Ø3.22 REF(NOTE 3)	DRILL DIAMETER	Ø3.22 REF(NOTE 3)	
	DRILLED HOLE	Ø3.19-3.25	DRILLED HOLE	Ø3.19-3.25	
	COPPER PLATING	25µ MINI (RECOMMENDED 50µ MAXI)	COPPER PLATING	25µ MINI (RECOMMENDED 50µ MAXI)	
	TIN-LEAD PLATING	15µ MAXI (RECOMMENDED 5µ MINI)	TIN-LEAD PLATING	15µ MAXI (RECOMMENDED 5µ MINI)	
	TIN PLATING		TIN PLATING	0.8 to 1,2µ	Ø3.10±0.10
	FINISH HOLE (AFTER REFLOW)	Ø 3.02-3.20	FINISH HOLE (AFTER REFLOW)	Ø3.08-3.20	

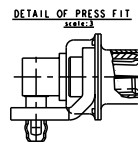
NOTE-1:THESE DIMENSIONS MUST BE RESPECT TO SECURE PRESS-FIT PIN PERFORMANCES.

NOTE-2: ACCORDING TO IEC-352-5 SPEC.

NOTE-3: MAJOR REQUIREMENT FOR PRESS FIT PIN PERFORMANCE

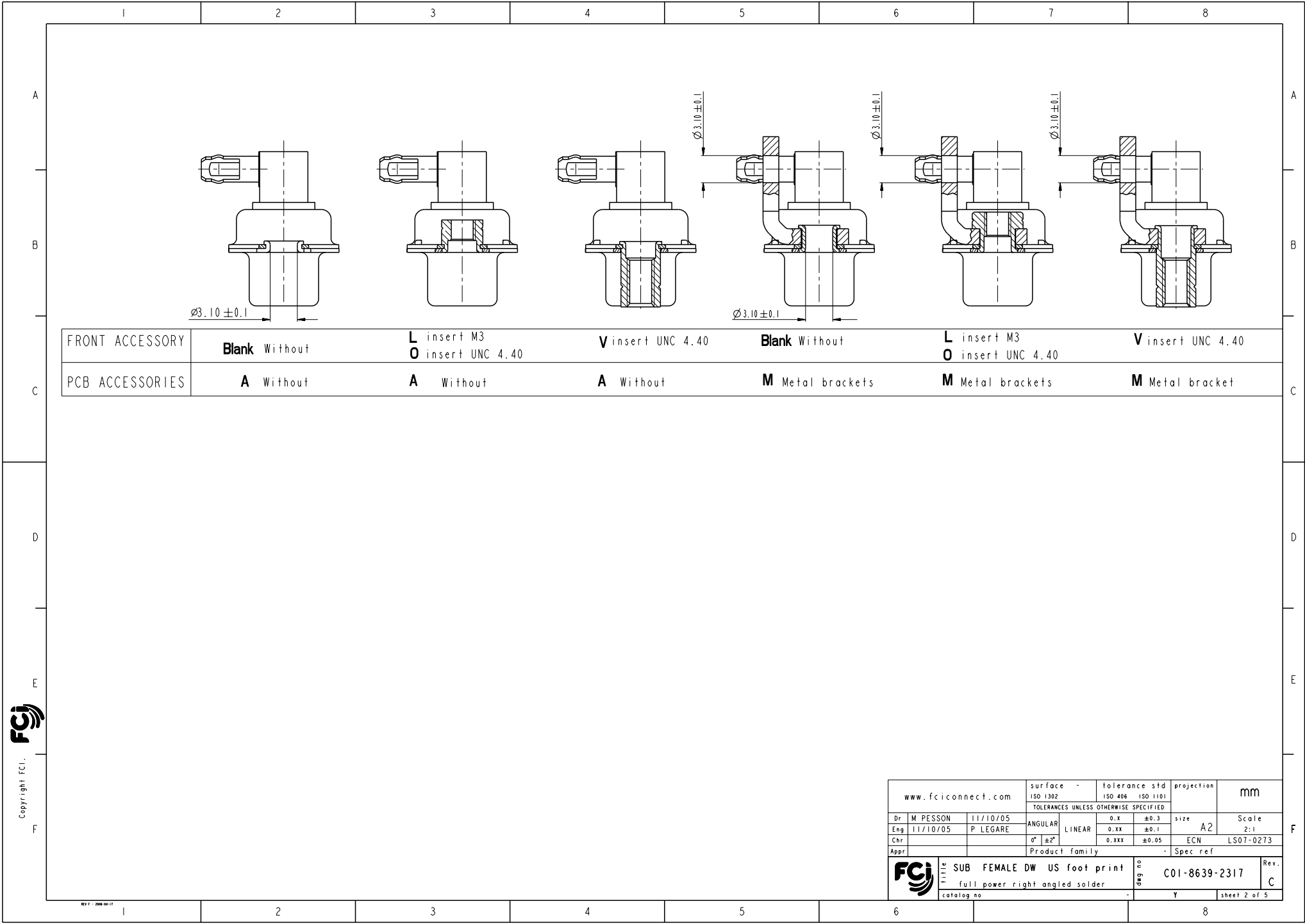


5W5 FOR EXAMPLE

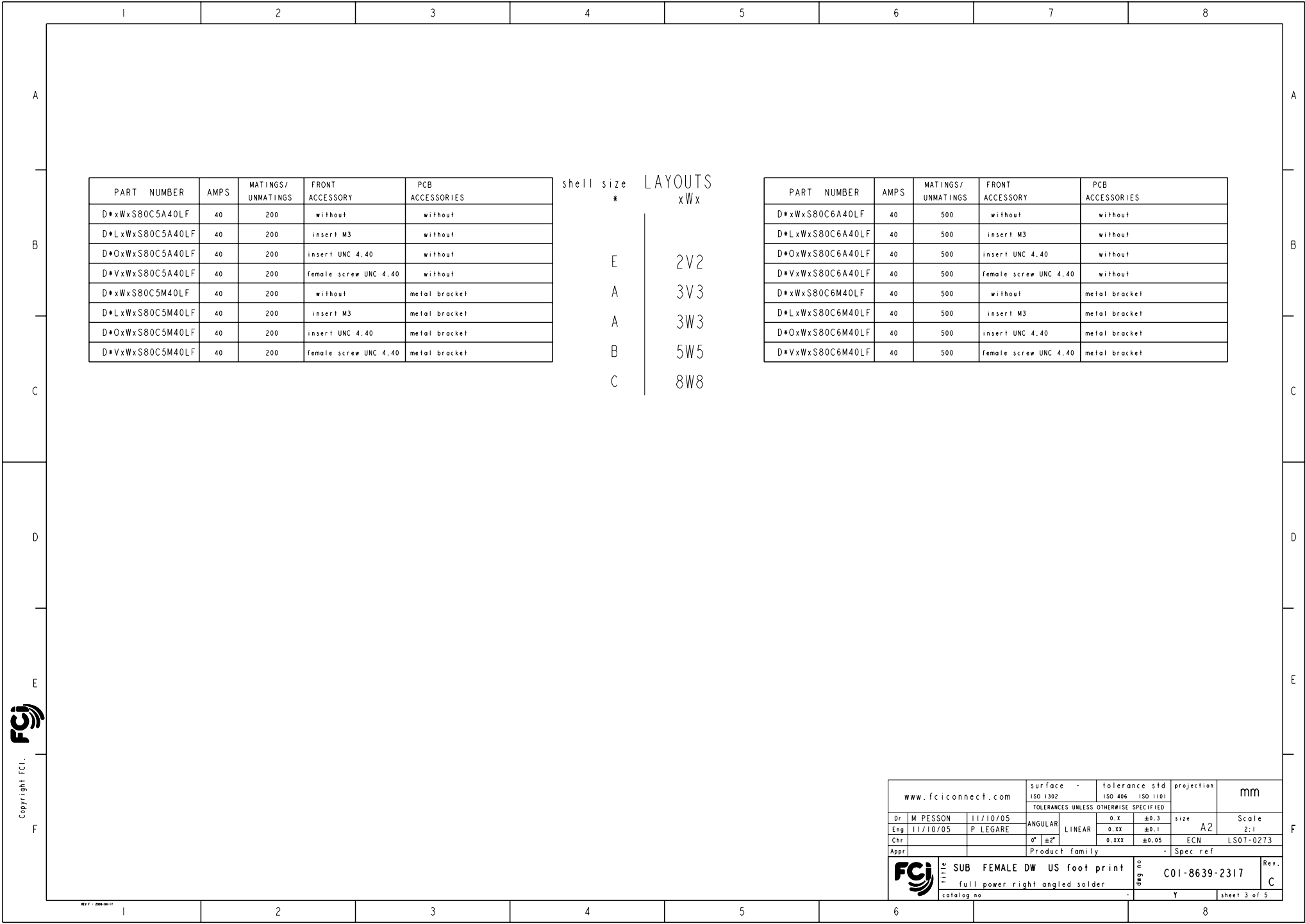


NOTE-3: MAJOR REQUIREMENT FOR PRESS FIT PIN PERFORMANCE

PERFORMANCE				www.fciconnect.com		surface -  tolerance std ISO 1302 ISO 406 ISO 1101		projection  mm							
						TOLERANCES UNLESS OTHERWISE SPECIFIED									
Dr		M PESSON		11/10/05		ANGULAR		0.X ±0.3		size A2		Scale 2:1			
Eng		11/10/05		P LEGARE		LINEAR		0.XX ±0.1							
Chr						0° ±2°		0.XXX ±0.05		ECN		LS07-0273			
Appr						Product family				- Spec ref					
rev		ecn no		dr		date		FCI		title		SUB FEMALE DW US foot print		Rev.	
B		ISO-0208		LGO		2006/12/13		catalog no		full power right angled solder		C01-8639-2317		C	
C		LS07-0273		MPE		2007/11/05		deg no		Y		sheet 1 of 5			
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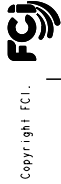
www.fciconnect.com		surface - ISO 1302	tolerance std ISO 406 ISO 1101	projection	mm	
		TOLERANCES UNLESS OTHERWISE SPECIFIED				
Dr	M PESSON	11/10/05	ANGULAR	0.X	±0.3	size A2
Eng	11/10/05	P LEGARE	LINEAR	0.XX	±0.1	Scale 2:1
Chr			0° ±2°	0.XXX	±0.05	ECN LS07-0273
Appr			Product family	- Spec ref		
FCi		SUB FEMALE DW US foot print		deg no C01-8639-2317		Rev. C
		full power right angled solder		Y		sheet 2 of 5
		catalog no				



PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS80C5A40LF	40	200	without	without
D*LxWxS80C5A40LF	40	200	insert M3	without
D*OxWxS80C5A40LF	40	200	insert UNC 4.40	without
D*VxWxS80C5A40LF	40	200	female screw UNC 4.40	without
D*xWxS80C5M40LF	40	200	without	metal bracket
D*LxWxS80C5M40LF	40	200	insert M3	metal bracket
D*OxWxS80C5M40LF	40	200	insert UNC 4.40	metal bracket
D*VxWxS80C5M40LF	40	200	female screw UNC 4.40	metal bracket

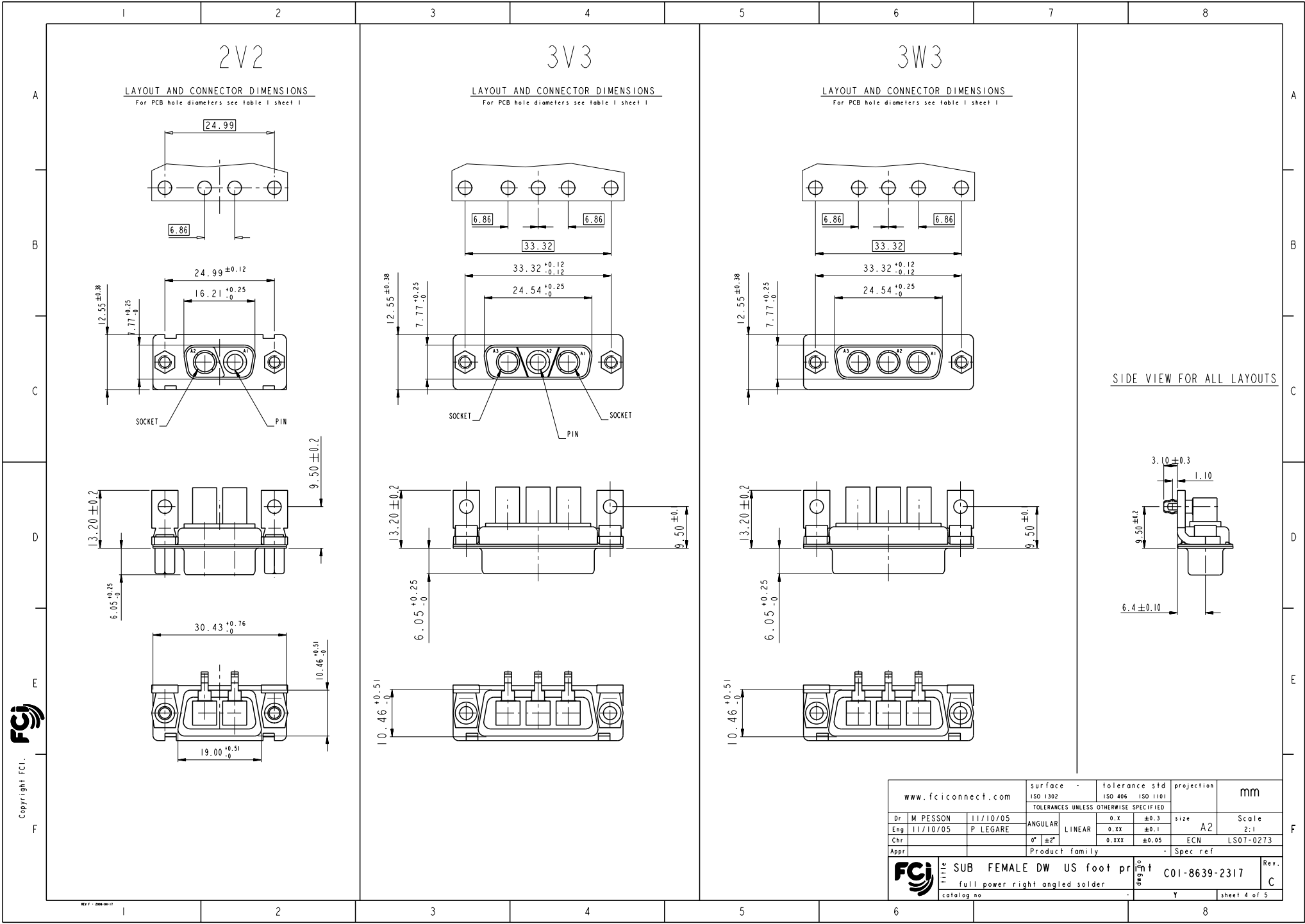
shell size	LAYOUTS
*	xWx
E	2V2
A	3V3
A	3W3
B	5W5
C	8W8

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS80C6A40LF	40	500	without	without
D*LxWxS80C6A40LF	40	500	insert M3	without
D*OxWxS80C6A40LF	40	500	insert UNC 4.40	without
D*VxWxS80C6A40LF	40	500	female screw UNC 4.40	without
D*xWxS80C6M40LF	40	500	without	metal bracket
D*LxWxS80C6M40LF	40	500	insert M3	metal bracket
D*OxWxS80C6M40LF	40	500	insert UNC 4.40	metal bracket
D*VxWxS80C6M40LF	40	500	female screw UNC 4.40	metal bracket



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www.fciconnect.com		surface - ISO 1302	tolerance std ISO 406 ISO 1101	projection	mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED			
Dr	M PESSON	11/10/05	ANGULAR	0.X ±0.3	size A2
Eng	11/10/05	P LEGARE	LINEAR	0.XX ±0.1	Scale 2:1
Chr			0° ±2°	0.XXX ±0.05	ECN LS07-0273
Appr			Product family	-	Spec ref
FCI		SUB FEMALE DW US foot print		deg no C01-8639-2317	Rev. C
		full power right angled solder		Y	sheet 3 of 5
		catalog no	-		



3W3

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I

6.86

6.86

33.32

33.32 ± 0.12

-0.12

24.54 ± 0.25

0

12.55 ± 0.38

7.77 ± 0

SOCKET

PIN

SOCKET

13.20 ± 0.2

6.05 ± 0.25

0

9.50 ± 0.2

10.46 ± 0.51

0

SIDE VIEW FOR ALL LAYOUTS

3.10 ± 0.3

1.10

9.50 ± 0.2

6.4 ± 0.10

FCI

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REV 7 - 2006-04-17

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surface -
ISO 1302

tolerance std
ISO 406 ISO 1101

projection
mm

TOLERANCES UNLESS OTHERWISE SPECIFIED

Dr M PESSON 11/10/05

Eng 11/10/05 P LEGARE

Chr

Appr

Product family

Spec ref

size A2

Scale 2:1

ECN LS07-0273

FCI

Sub FEMALE DW US foot pr
full power right angled solder

Part C01-8639-2317

Rev. C

catalog no

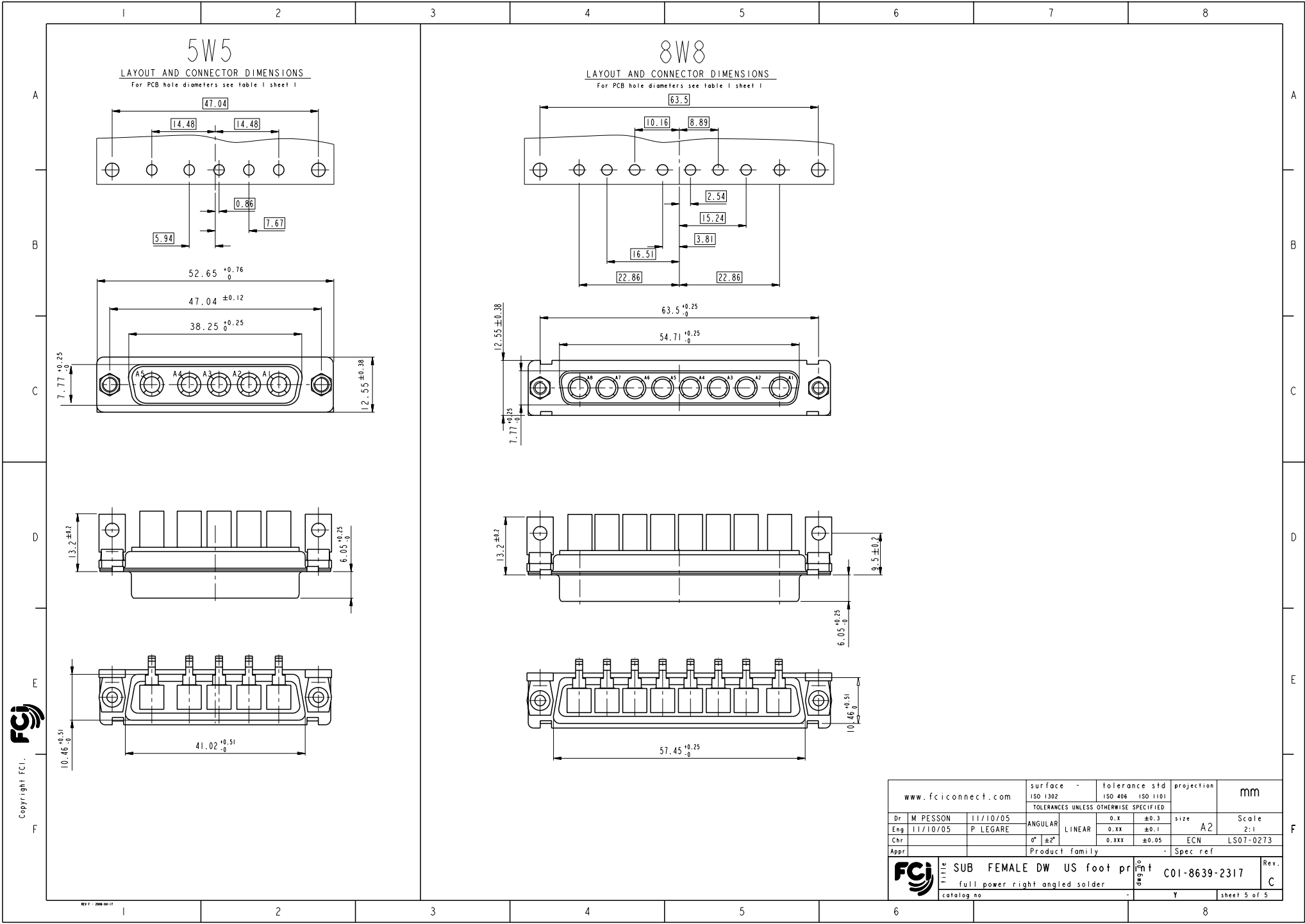
Y

sheet 4 of 5

PDM-Rev-C

STATUS-Released

Printed: Jun 20, 2015



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www.fciconnect.com		surface -	tolerance std	projection	mm	
		ISO 1302	ISO 406 ISO 1101			
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		full power right angled solder				
		catalog no		Y		sheet 5 of 5