

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

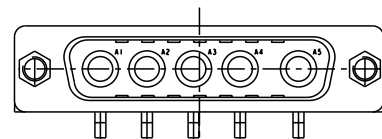
- Female screw : 0.5 N.m minimum

PRESS FIT PERFORMANCES

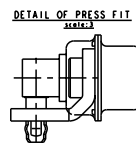
PRESS FIT CONTACTS	
INSERTION FORCE	<= 200 N
Average insertion 160N	
EXTRACTION FORCE	>= 30 N

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



5W5 FOR EXAMPLE



Series

DBL5W5P80C5M40LF

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

P :Pin

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

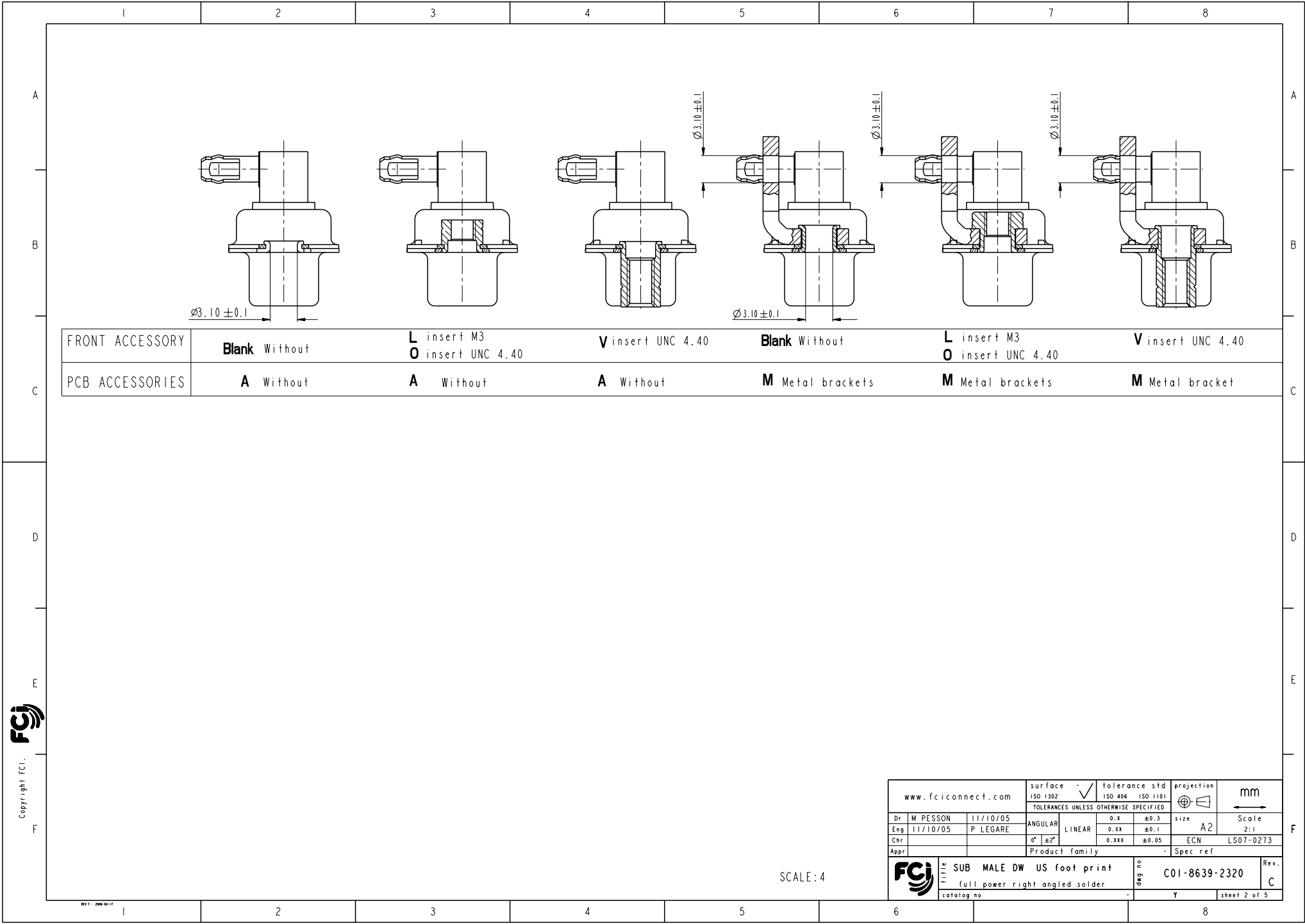
P.C.B HOLE DEFINITION (NOTE 1 AND 2)	SnPb holes for CONTACTS				holes ACCESSORIES
	DRILL DIAMETER	Ø3.22 REF(NOTE 3)	Ø3.22 REF(NOTE 3)		
	DRILLED HOLE	Ø3.19-3.25	Ø3.19-3.25		
	COPPER PLATING	25µ MINI (RECOMMENDED 50µ MAXI)	25µ MINI (RECOMMENDED 50µ MAXI)		
	TIN-LEAD PLATING	15µ MAXI (RECOMMENDED 5µ MINI)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

PERFORMANCE				www.fciconnect.com		surface ☒ ISO 1302		tolerance std ISO 406 ISO 1101		projection 		mm 	
						TOLERANCES UNLESS OTHERWISE SPECIFIED							
rev		ech no		dr		date		Dr		M PESSON		11/10/05	
B		LS06-0208		LGO		2006/12/13		Eng		11/10/05		P LÉGARÉ	
C		LS07-0273		LGO		2007/11/05		Chr				ANGULAR	
								Appr				LINEAR	
												0.X ±0.3	
												0.XX ±0.1	
												0.XXX ±0.05	
												size A2	
												Scale 2:1	
												ECN LS07-0273	
												Product family	
												- Spec ref	



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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	Scale
Eng	11/10/05	P LEGARE	LINEAR	0.XX	±0.1	2:1		
Chr			0° ±2°	0.XXX	±0.05	ECN	LS07-0273	
Appr			Product family		Spec ref			
FCI		SUB MALE DW US foot print		deg no		C01-8639-2320		
		full power right angled solder		catalog no		Y		
						sheet 2 of 5		

SCALE: 4

1

2

3

4

5

6

7

8

A

B

C

D

E

F

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP80C5A40LF	40	200	without	without
D*LxWxP80C5A40LF	40	200	insert M3	without
D*OxWxP80C5A40LF	40	200	insert UNC 4.40	without
D*VxWxP80C5A40LF	40	200	female screw UNC 4.40	without
D*xWxP80C5M40LF	40	200	without	metal bracket
D*LxWxP80C5M40LF	40	200	insert M3	metal bracket
D*OxWxP80C5M40LF	40	200	insert UNC 4.40	metal bracket
D*VxWxP80C5M40LF	40	200	female screw UNC 4.40	metal bracket

shell size

#

E

A

A

B

C

LAYOUTS

xWx

2V2

3V3

3W3

5W5

8W8

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP80C6A40LF	40	500	without	without
D*LxWxP80C6A40LF	40	500	insert M3	without
D*OxWxP80C6A40LF	40	500	insert UNC 4.40	without
D*VxWxP80C6A40LF	40	500	female screw UNC 4.40	without
D*xWxP80C6M40LF	40	500	without	metal bracket
D*LxWxP80C6M40LF	40	500	insert M3	metal bracket
D*OxWxP80C6M40LF	40	500	insert UNC 4.40	metal bracket
D*VxWxP80C6M40LF	40	500	female screw UNC 4.40	metal bracket

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surface
ISO 1302

☒

tolerance std
ISO 406 ISO 1101

projection

mm

Dr M PESSON 11/10/05

Eng 11/10/05 P LEGARE

Chr

Appr

ANGULAR

LINEAR

0.X ±0.3

0.XX ±0.1

0.XXX ±0.05

size A2

Scale 2:1

ECN LS07-0273

Product family

Spec ref

FCI

title SUB MALE DW US foot print

full power right angled solder

catalog no

part no C01-8639-2320

Rev. C

sheet 3 of 5

REV F - 2008-08-13

1

2

3

4

5

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7

8

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surface
ISO 1302

tolerance std
ISO 406 ISO 1101

projection
mm

Dr M PESSON 11/10/05

Eng 11/10/05 P LEGARE

Chr

Appr

ANGULAR

LINEAR

0° ±2°

0.X ±0.3

0.XX ±0.1

0.XXX ±0.05

size A2

ECN LS07-0273

Spec ref

Scale 2:1

Product family

Rev. C

deg no

Y

sheet 3 of 5

FCI

TITLE

SUB MALE DW US foot print

full power right angled solder

catalog no

FCI

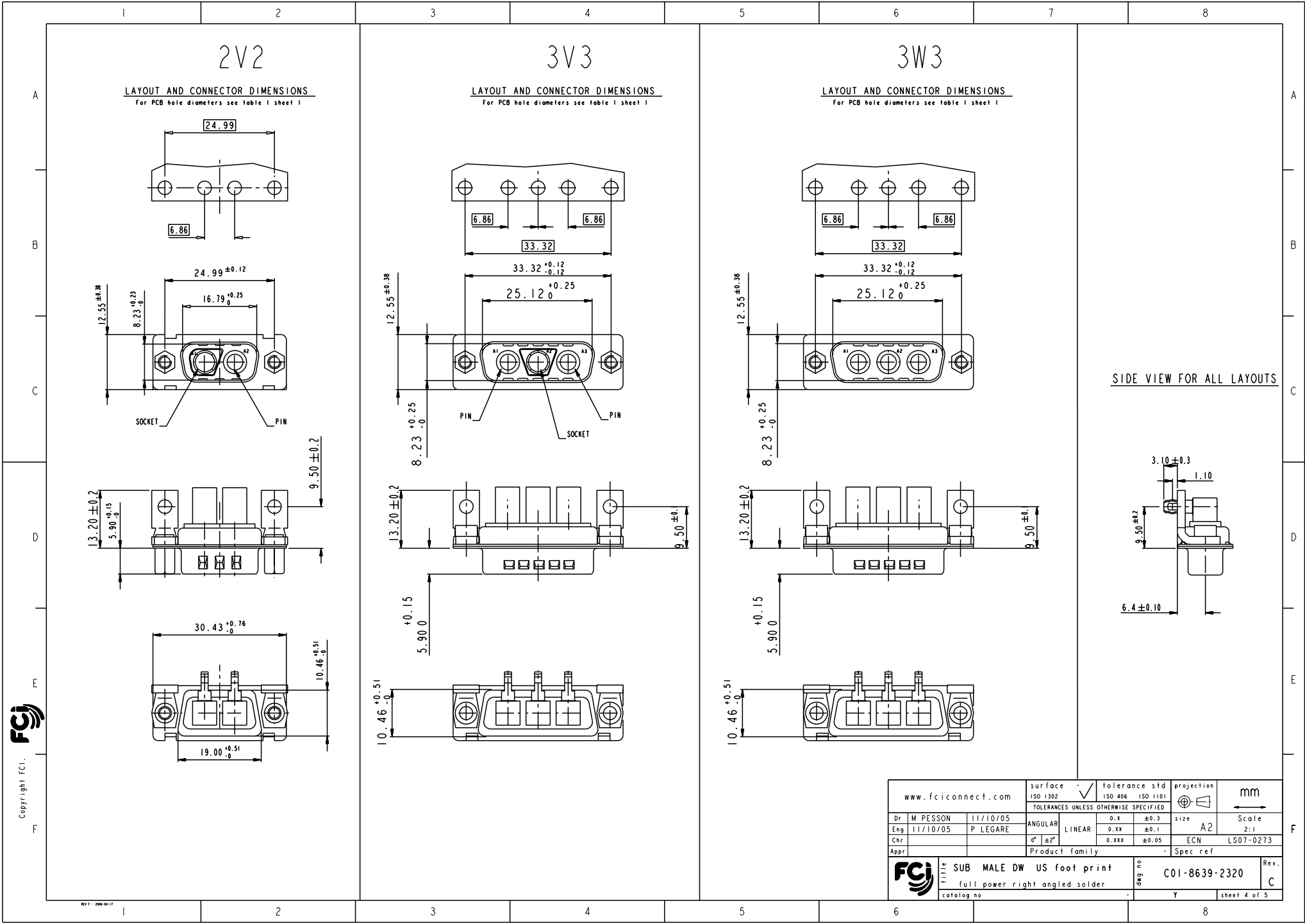
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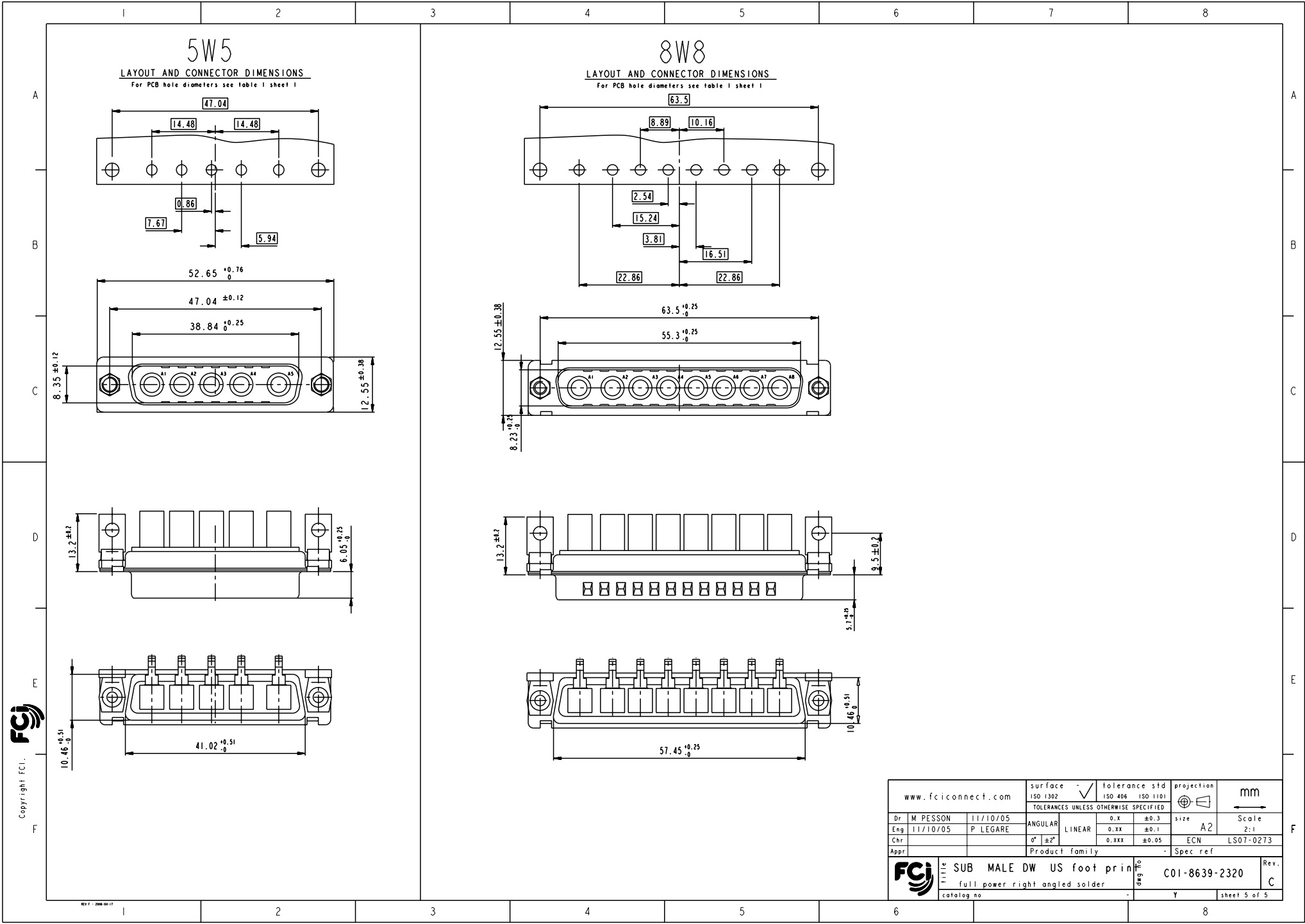
REV 7 - 2006-09-17

PDM-Rev-C

STATUS: Released

Printed: Jun 20, 2015





www.fciconnect.com		surface	ISO 1302	tolerance std	ISO 406	ISO 1101	projection	mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED					size	Scale
Dr	M PESSON	11/10/05	ANGULAR	0.X	± 0.3		A2	2:1
Eng	11/10/05	P LEGARE	LINEAR	0.XX	± 0.1		ECN	LS07-0273
Chr			0° $\pm 2^\circ$	0.XXX	± 0.05		Spec ref	
Appr			Product family					
FCi		SUB MALE DW US foot prin		full power right angled solder		C01-8639-2320		Rev.
catalog no						Y		sheet 5 of 5