

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

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

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

DBL5W5P81C6M40LF

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

81C Right angle/Europe standard

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

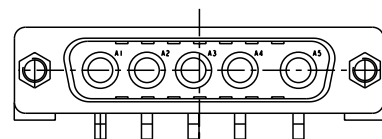
TABLE 1:PCB HOLE DIAMETERS

P.C.B HOLE DEFINITION	DRILL DIAMETER	SnPb holes for CONTACTS	Sn holes for CONTACTS	holes ACCESSORIES
	Ø3.22 REF(NOTE 3)	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)		
(NOTE-1 AND 2)	TIN PLATING		0.8 tol,2µ	Ø3.10±0.10
	FINISH HOLE (AFTER REFLOW)	Ø 3.02-3.20	Ø3.08-3.20	

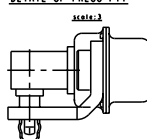
NOTE-1:THESE DIMENSIONS MUST BE RESPECT TO SECURE PRESS-FIT PIN PERFORMANCES.

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

NOTE-3: MAJOR REQUIREMENT FOR PRESS FIT PIN PERFORMANCE



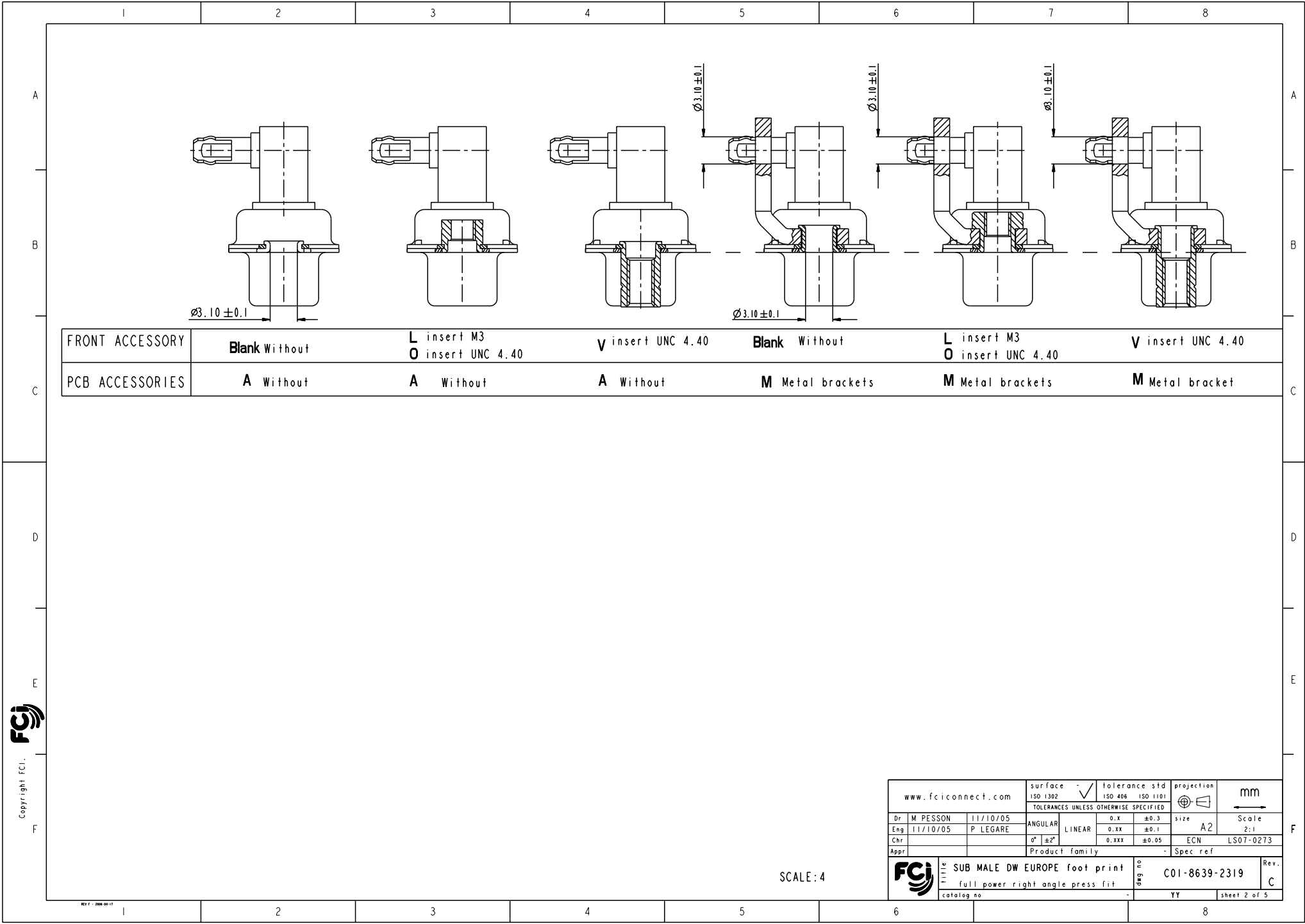
DETAIL OF PRESS FIT

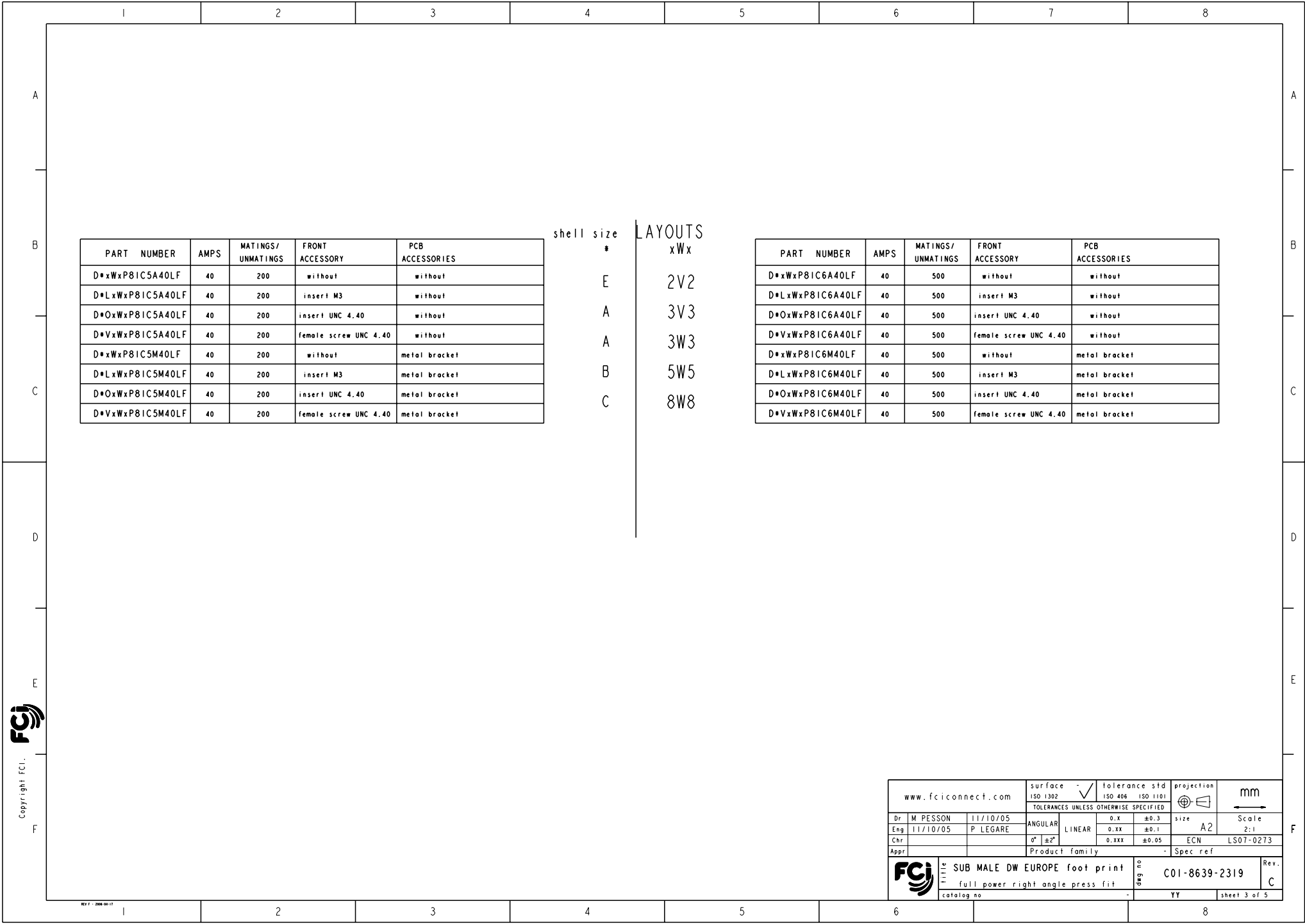


5W5 FOR EXAMPLE

rev	ecn no	dr	date
B	LS06-0208	LGO	2006/12/13
C	LS07-0273	MPE	2007/11/05
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

www.fciconnect.com		surface	-	tolerance std	projection	mm	
		ISO 1302	✓	ISO 406	ISO 1101		
		TOLERANCES UNLESS OTHERWISE SPECIFIED					
		ANGULAR	LINEAR	0.X	±0.3	size	Scale
		0° ±2°		0.XX	±0.1	A2	2:1
				0.XXX	±0.05	ECN	LS07-0273
		Product family				Spec ref	
		SUB MALE DW EUROPE foot print				C01-8639-2319	
		full power right angle press fit				C	
		catalog no				YY	
						sheet 1 of 5	





PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP81C5A40LF	40	200	without	without
D*LxWxP81C5A40LF	40	200	insert M3	without
D*OxWxP81C5A40LF	40	200	insert UNC 4.40	without
D*VxWxP81C5A40LF	40	200	female screw UNC 4.40	without
D*xWxP81C5M40LF	40	200	without	metal bracket
D*LxWxP81C5M40LF	40	200	insert M3	metal bracket
D*OxWxP81C5M40LF	40	200	insert UNC 4.40	metal bracket
D*VxWxP81C5M40LF	40	200	female screw UNC 4.40	metal bracket

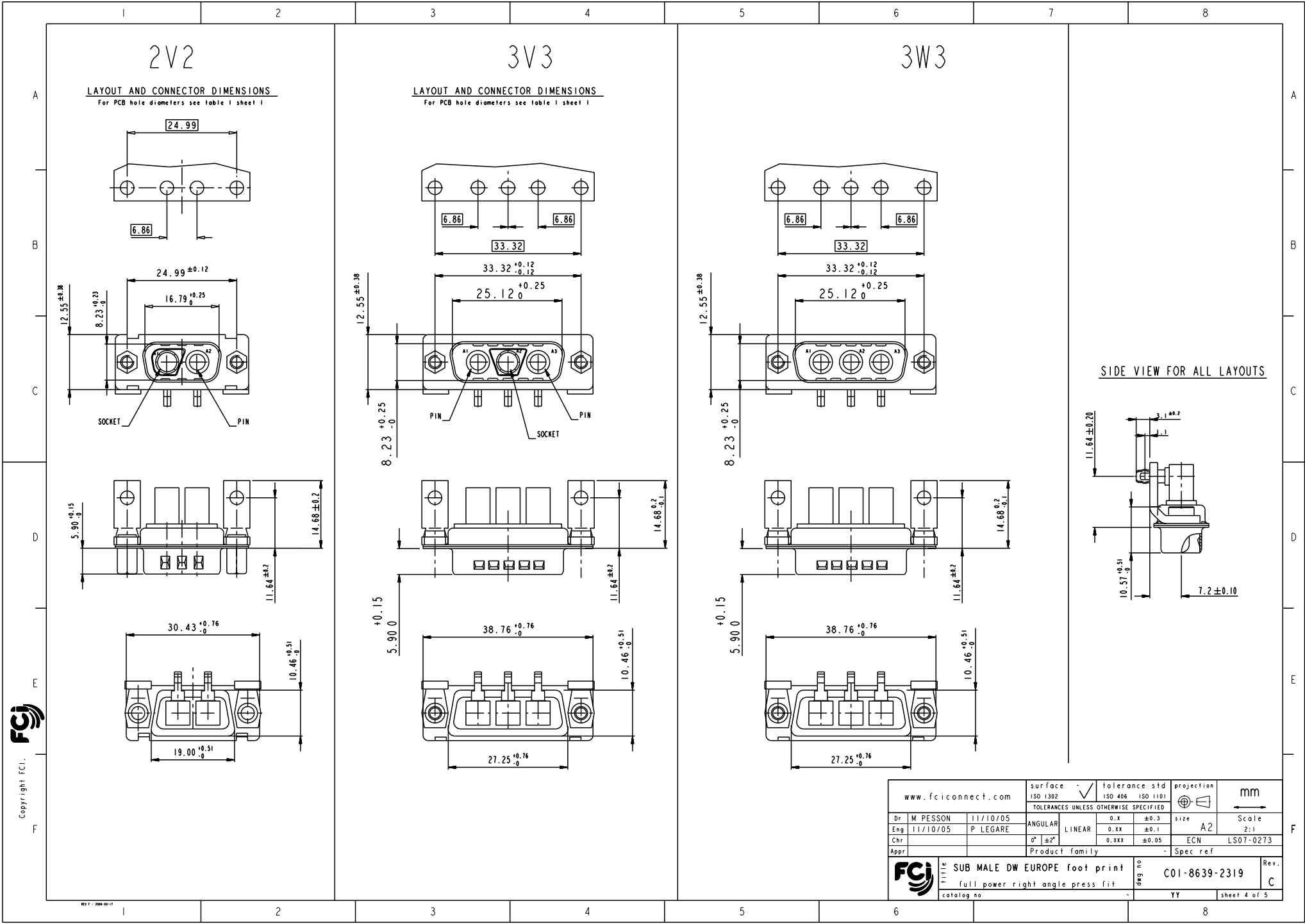
shell size

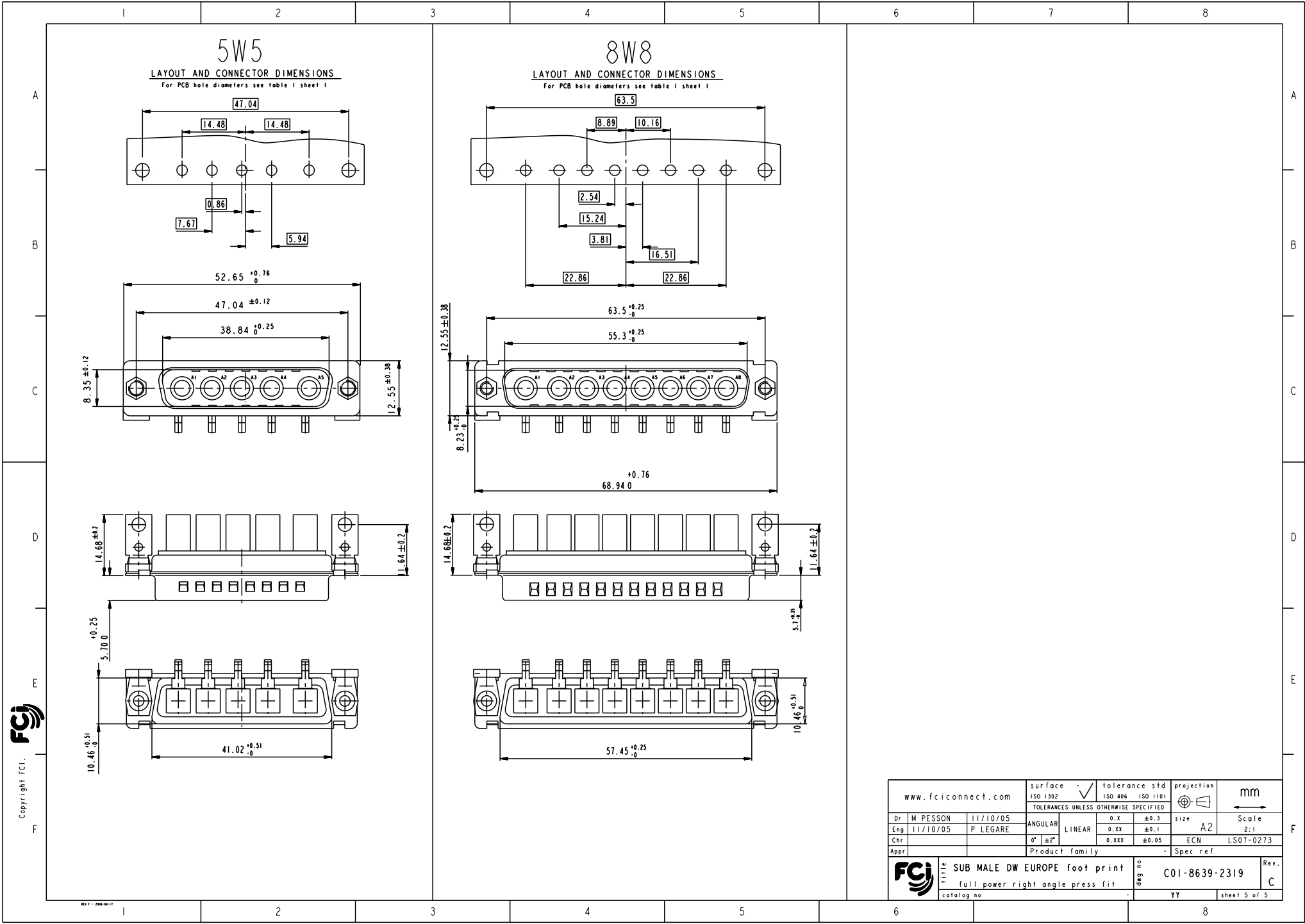
E
A
A
B
C

LAYOUTS
xWx
2V2
3V3
3W3
5W5
8W8

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP81C6A40LF	40	500	without	without
D*LxWxP81C6A40LF	40	500	insert M3	without
D*OxWxP81C6A40LF	40	500	insert UNC 4.40	without
D*VxWxP81C6A40LF	40	500	female screw UNC 4.40	without
D*xWxP81C6M40LF	40	500	without	metal bracket
D*LxWxP81C6M40LF	40	500	insert M3	metal bracket
D*OxWxP81C6M40LF	40	500	insert UNC 4.40	metal bracket
D*VxWxP81C6M40LF	40	500	female screw UNC 4.40	metal bracket

www.fciconnect.com		surface ISO 1302	-	tolerance std ISO 406 ISO 1101	projection mm	size A2		Scale 2:1
Dr M PESSON		11/10/05		TOLERANCES UNLESS OTHERWISE SPECIFIED		size A2		Scale 2:1
Eng 11/10/05		P LEGARE		ANGULAR	0.X ±0.3	ECN		LS07-0273
Chr				LINEAR	0.XX ±0.1	Spec ref		
Appr				0° ±2°	0.XXX ±0.05			
Product family								
FCi		SUB MALE DW EUROPE foot print		deg no		C01-8639-2319		Rev. C
full power right angle press fit								
catalog no				YY		sheet 3 of 5		





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	LINEAR	0.X	±0.3	size A2	Scale 2:1	ECN LS07-0273
Eng	11/10/05	P LEGARE			0.XX	±0.1			
Chr			0° ±2°		0.XXX	±0.05			
Appr			Product family			- Spec ref			
			SUB MALE DW EUROPE foot print				C01-8639-2319		Rev. C
			full power right angle press fit						
catalog no			-			YY		sheet 5 of 5	

Mouser Electronics

Authorized Distributor

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[DBO5W5P81C6M40LF](#) [DAL3W3P81C5M40LF](#) [DEO2V2P81C5M40LF](#)