

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

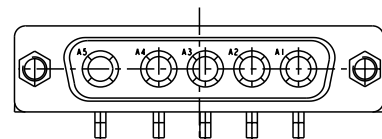
- Female screw : 0.5 N.m minimum

PRESS FIT PERFORMANCES

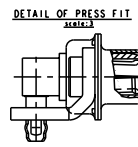
PRESS FIT CONTACTS	
INSERTION FORCE	<= 200 N
Average insertion 160N	
EXTRACTION FORCE	>= 30 N

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

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

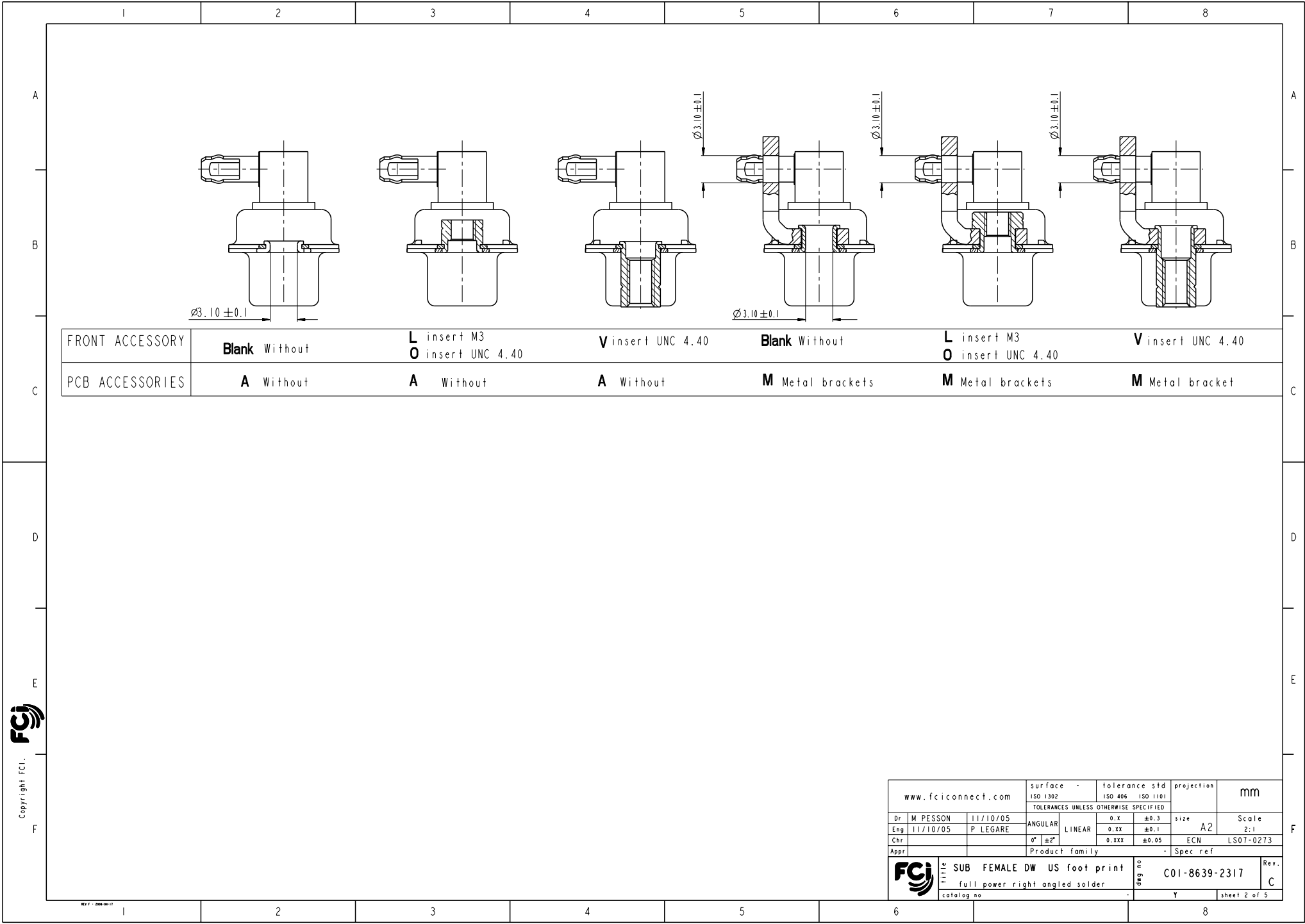
P.C.B HOLE DEFINITION (NOTE 1 AND 2)	SnPb holes for CONTACTS		Sn holes for CONTACTS		holes ACCESSORIES
	DRILL DIAMETER	Ø3.22 REF(NOTE 3)	DRILL DIAMETER	Ø3.22 REF(NOTE 3)	
	DRILLED HOLE	Ø3.19-3.25	DRILLED HOLE	Ø3.19-3.25	
	COPPER PLATING	25µ MINI (RECOMMENDED 50µ MAXI)	COPPER PLATING	25µ MINI (RECOMMENDED 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.

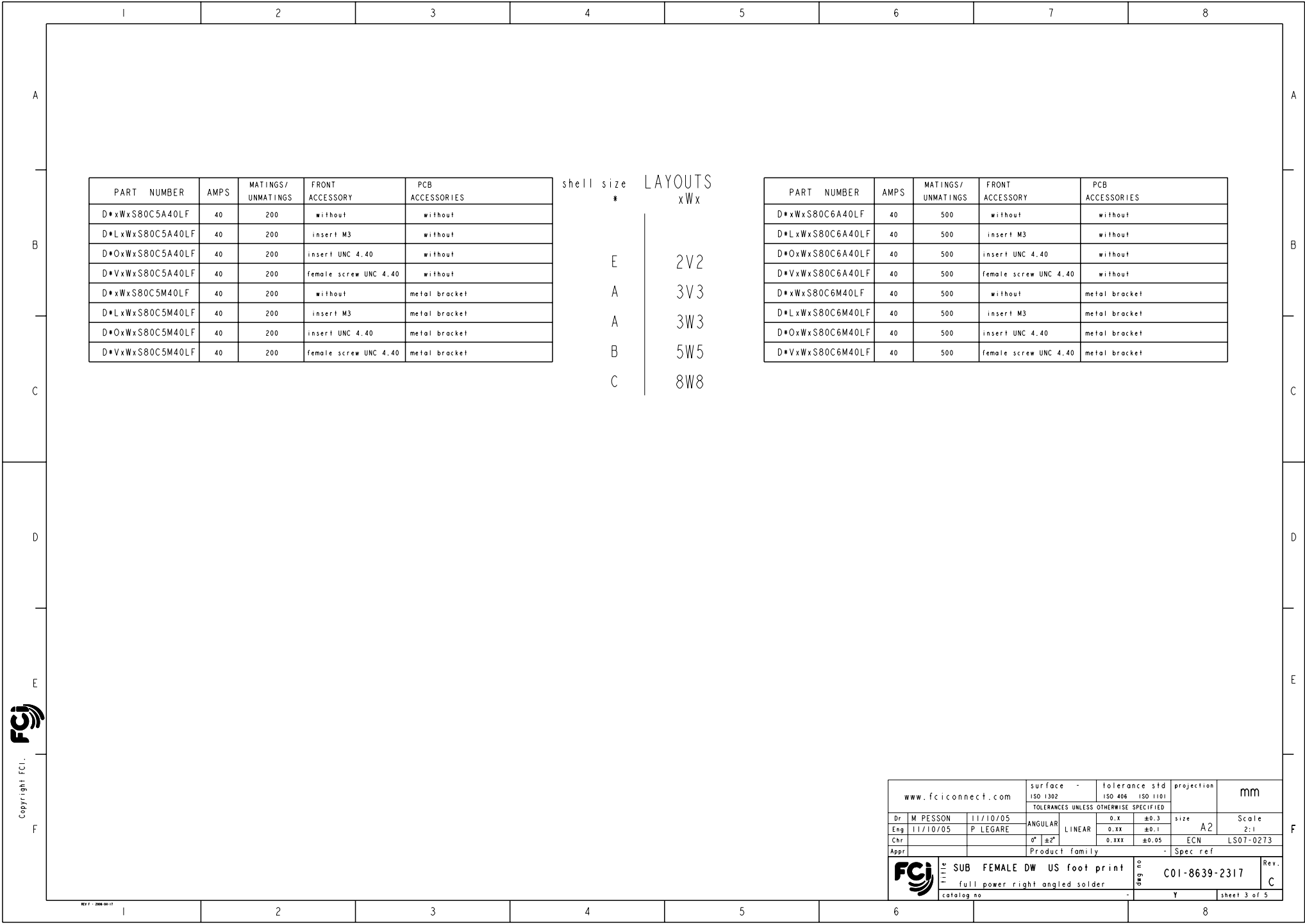
NOTE-2: ACCORDING TO IEC-352-5 SPEC.

NOTE-3: MAJOR REQUIREMENT FOR PRESS FIT PIN PERFORMANCE

RMRANCE				www.fciconnect.com		surface - ☒ tolerance std ISO 1302 ISO 406 ISO 1101		projection 		mm 					
						TOLERANCES UNLESS OTHERWISE SPECIFIED									
rev		ecn no		dr		date		ANGULAR		LINEAR		size		Scale	
B		LS06-0208		LGO		2006/12/13		0.X		±0.3		A2		2:1	
C		LS07-0273		MPE		2007/11/05		0° ±2°		0.XXX		±0.05		ECN LS07-0273	
-		-		-		-		Product family		-		Spec ref			
-		-		-		-		FCI		SUB FEMALE DW US foot print		C01-8639-2317		Rev. C	
-		-		-		-		full power right angled solder		-		Y		sheet 1 of 5	
-		-		-		-		catalog no		-					



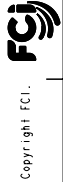
www.fciconnect.com		surface - ISO 1302	tolerance std ISO 406 ISO 1101	projection	mm	
		TOLERANCES UNLESS OTHERWISE SPECIFIED				
Dr	M PESSON	11/10/05	ANGULAR	0.X	±0.3	size A2
Eng	11/10/05	P LEGARE	LINEAR	0.XX	±0.1	Scale 2:1
Chr			0° ±2°	0.XXX	±0.05	ECN LS07-0273
Appr			Product family	- Spec ref		
FCI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



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

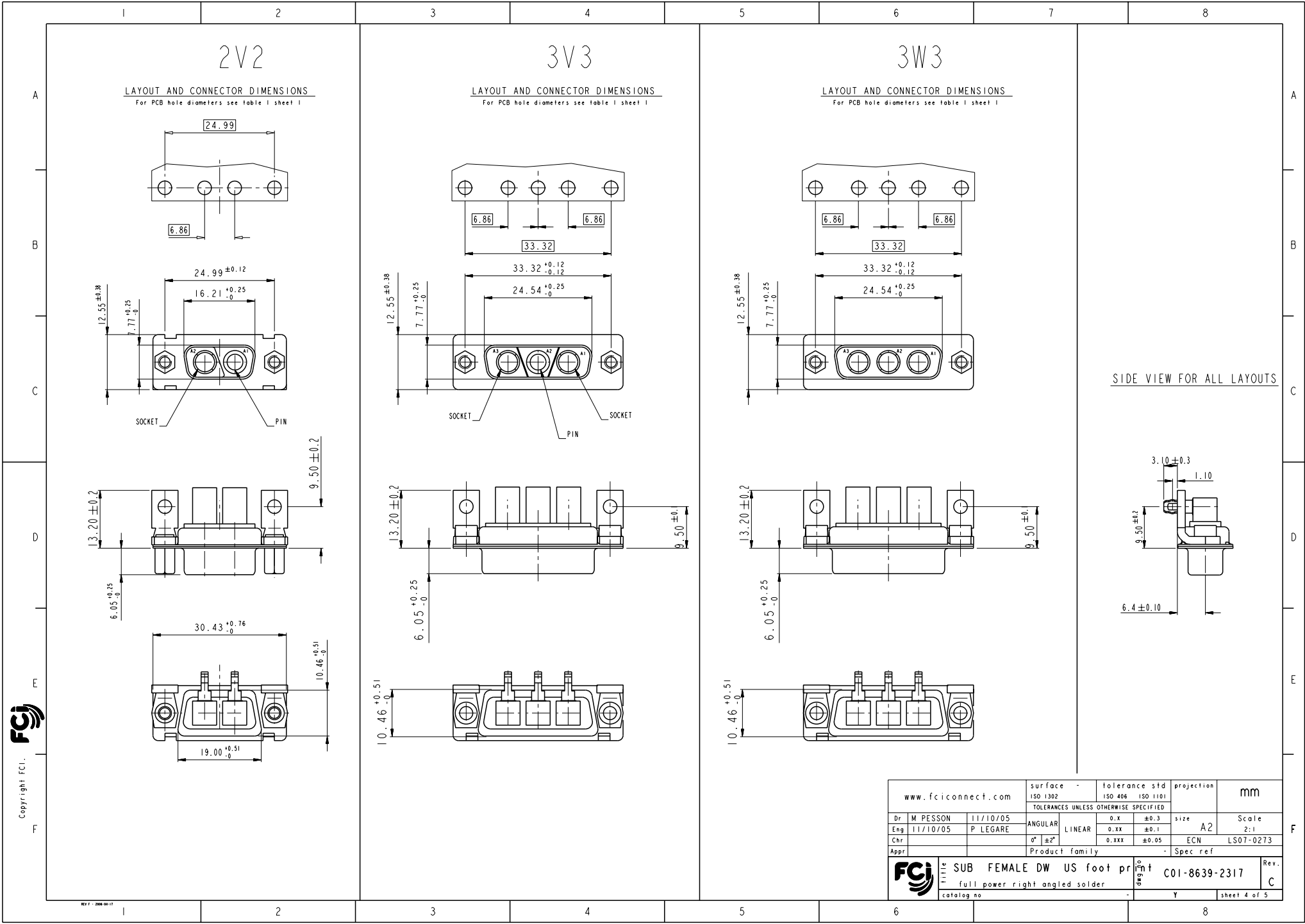
shell size	LAYOUTS
*	xWx
E	2V2
A	3V3
A	3W3
B	5W5
C	8W8

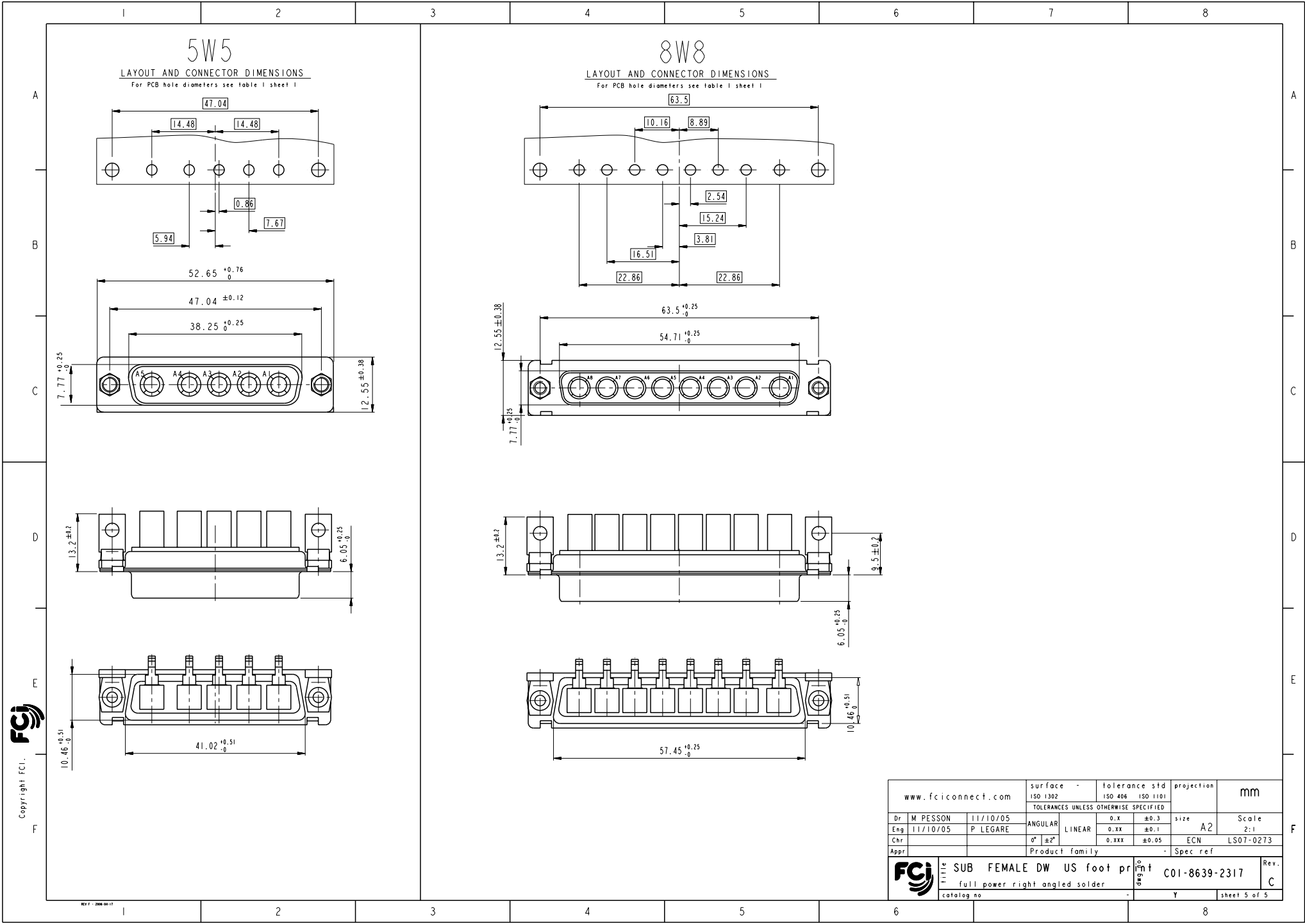
PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS80C6A40LF	40	500	without	without
D*LxWxS80C6A40LF	40	500	insert M3	without
D*OxWxS80C6A40LF	40	500	insert UNC 4.40	without
D*VxWxS80C6A40LF	40	500	female screw UNC 4.40	without
D*xWxS80C6M40LF	40	500	without	metal bracket
D*LxWxS80C6M40LF	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	Rev.
		full power right angled solder		C01-8639-2317	C
		catalog no	-	Y	sheet 3 of 5





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www.fciconnect.com		surface -	tolerance std	projection	mm	
		ISO 1302	ISO 406 ISO 1101			
		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	ECN LS07-0273
Chr			0° ±2°	0.XXX	±0.05	Spec ref
Appr			Product family			
FCI		SUB FEMALE DW US foot pr		C01-8639-2317		Rev. C
		full power right angled solder				
		catalog no		Y		sheet 5 of 5