

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

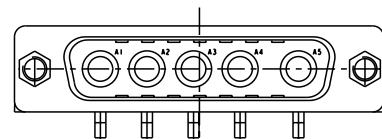
- Female screw : 0.5 N.m minimum

PRESS FIT PERFORMANCES

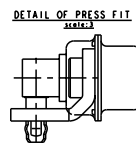
PRESS FIT CONTACTS	
INSERTION FORCE	<= 200 N
Average insertion 160N	
EXTRACTION FORCE	>= 30 N

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

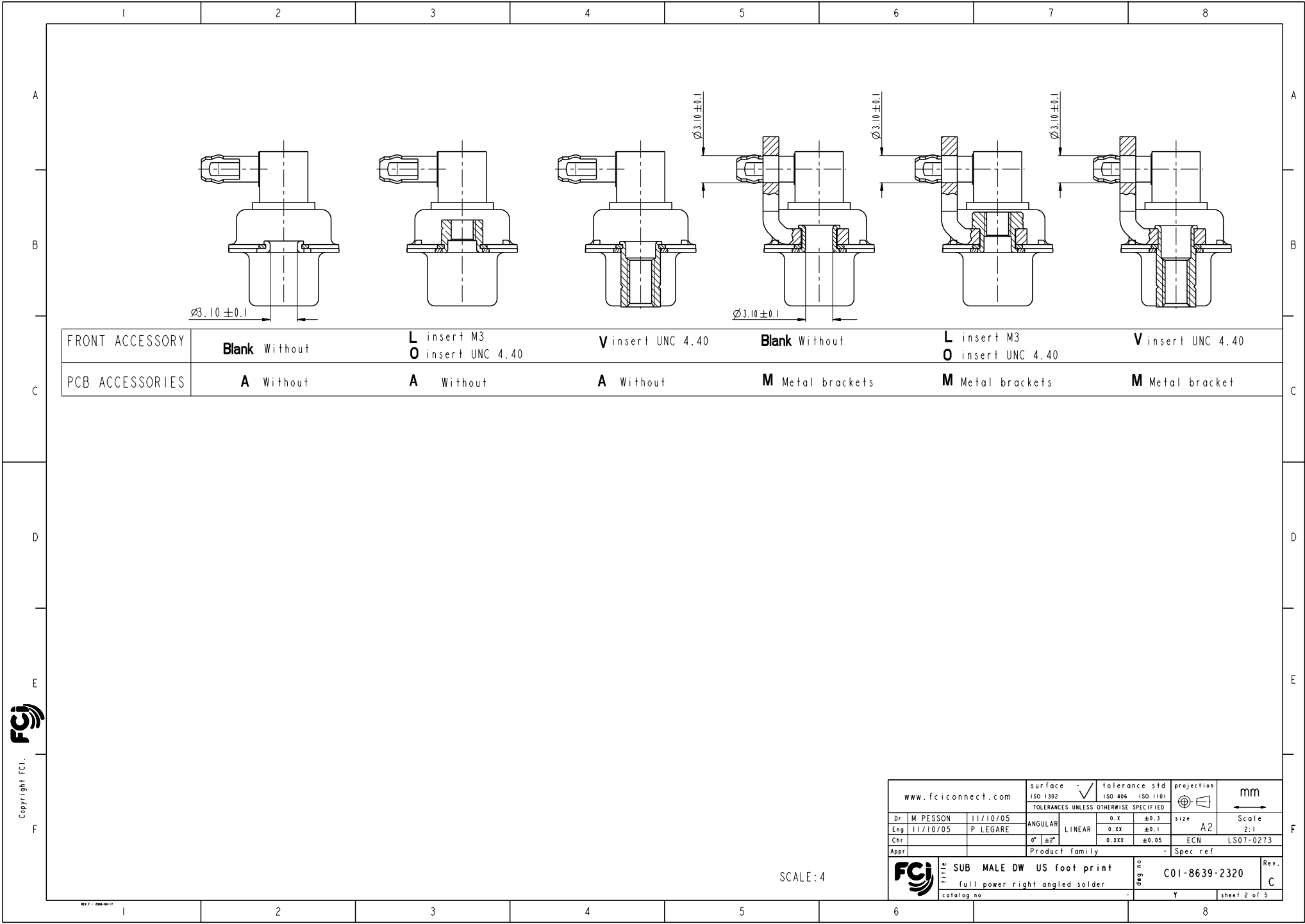
P.C.B HOLE DEFINITION (NOTE 1 AND 2)	SnPb holes for CONTACTS		Sn holes for CONTACTS		holes ACCESSORIES ø3.10±0.10
	DRILL DIAMETER	ø3.22 REF(NOTE 3)	DRILL DIAMETER	ø3.22 REF(NOTE 3)	
	DRILLED HOLE	ø3.19-3.25	DRILLED HOLE	ø3.19-3.25	
	COPPER PLATING	25µ MINI (RECOMMENDED 50µ MAXI)	COPPER PLATING	25µ MINI (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	
	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		0.0		A2		2:1	
C		LS07-0273		LGO		2007/11/05		0° ±2°		0.XXX ±0.05		ECN		LS07-0273	
Apr								Product family				- Spec ref			
								FCI		title		SUB MALE DW US foot print		Rev.	
										catalog no		full power right angled solder		C	
										dag no		C01-8639-2320		sheet 1 of 5	
												Y			



FRONT ACCESSORY	Blank Without	L insert M3 O insert UNC 4.40	V insert UNC 4.40	Blank Without	L insert M3 O insert UNC 4.40	V insert UNC 4.40
PCB ACCESSORIES	A Without	A Without	A Without	M Metal brackets	M Metal brackets	M Metal bracket

SCALE: 4

www.fciconnect.com		surface ISO 1302	-	tolerance std ISO 406	ISO 1101	projection mm	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° ±2°	0.XXX	±0.05	Spec ref	
Appr			Product family				
FCI		SUB MALE DW US foot print		deg no		C01-8639-2320	
		full power right angled solder		catalog no		Y	
						sheet 2 of 5	

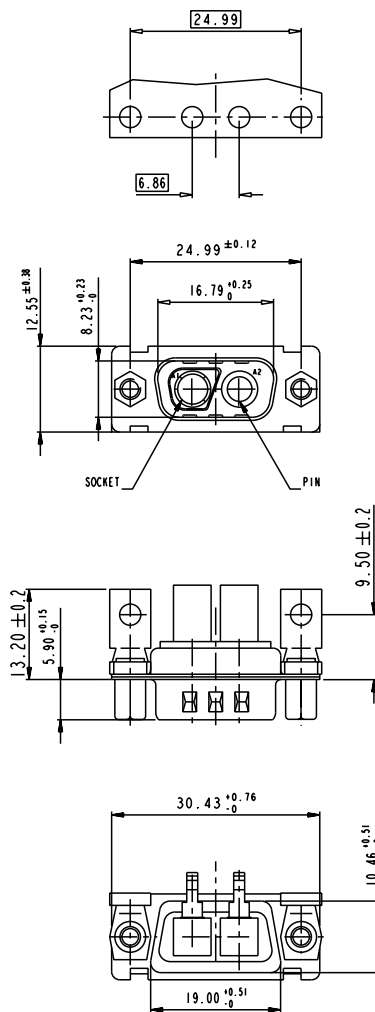
shell size	LAYOUTS
#	xWx
E	2V2
A	3V3
A	3W3
B	5W5
C	8W8

www.fciconnect.com			surface ☒ tolerance std ISO 1302 ISO 406 ISO 1101		projection 			
			TOLERANCES UNLESS OTHERWISE SPECIFIED					
Dr	M PESSON	11/10/05	ANGULAR	LINEAR	0.X $\pm$ 0.3	size	A2	Scale
Eng	11/10/05	P LEGARE			0.X $\pm$ 0.1			2:1
Chr					0.XXX $\pm$ 0.05	ECN	LS07-0273	
Appr			Product family		-	Spec ref		
			title SUB MALE DW US foot print full power right angled solder catalog no			dag no C01-8639-2320		Rev C
			-			Y		sheet 3 of 5

2V2

LAYOUT AND CONNECTOR DIMENSIONS

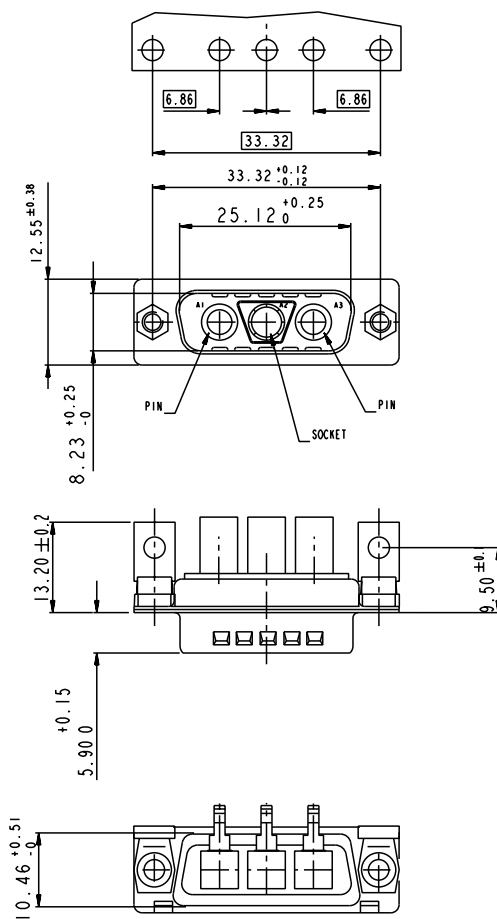
For PCB hole diameters see table I sheet I



3V3

LAYOUT AND CONNECTOR DIMENSIONS

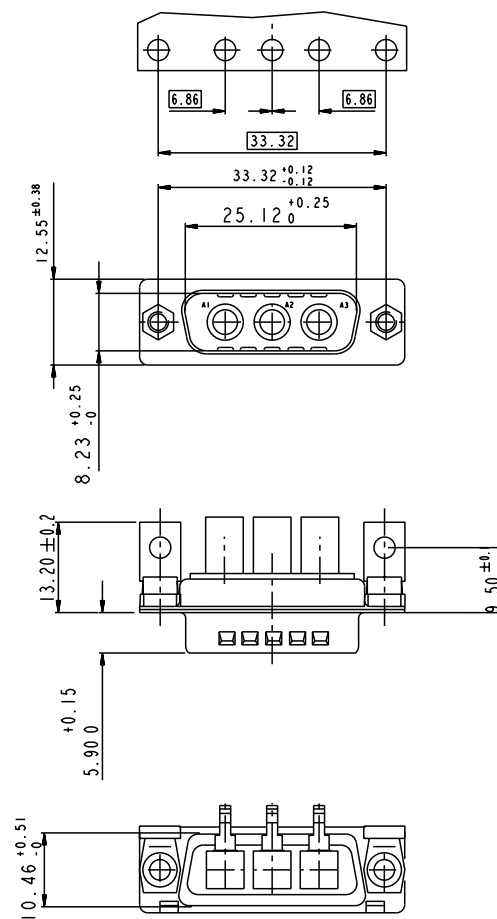
For PCB hole diameters see table I sheet I



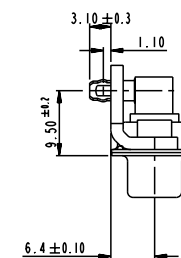
3W3

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I

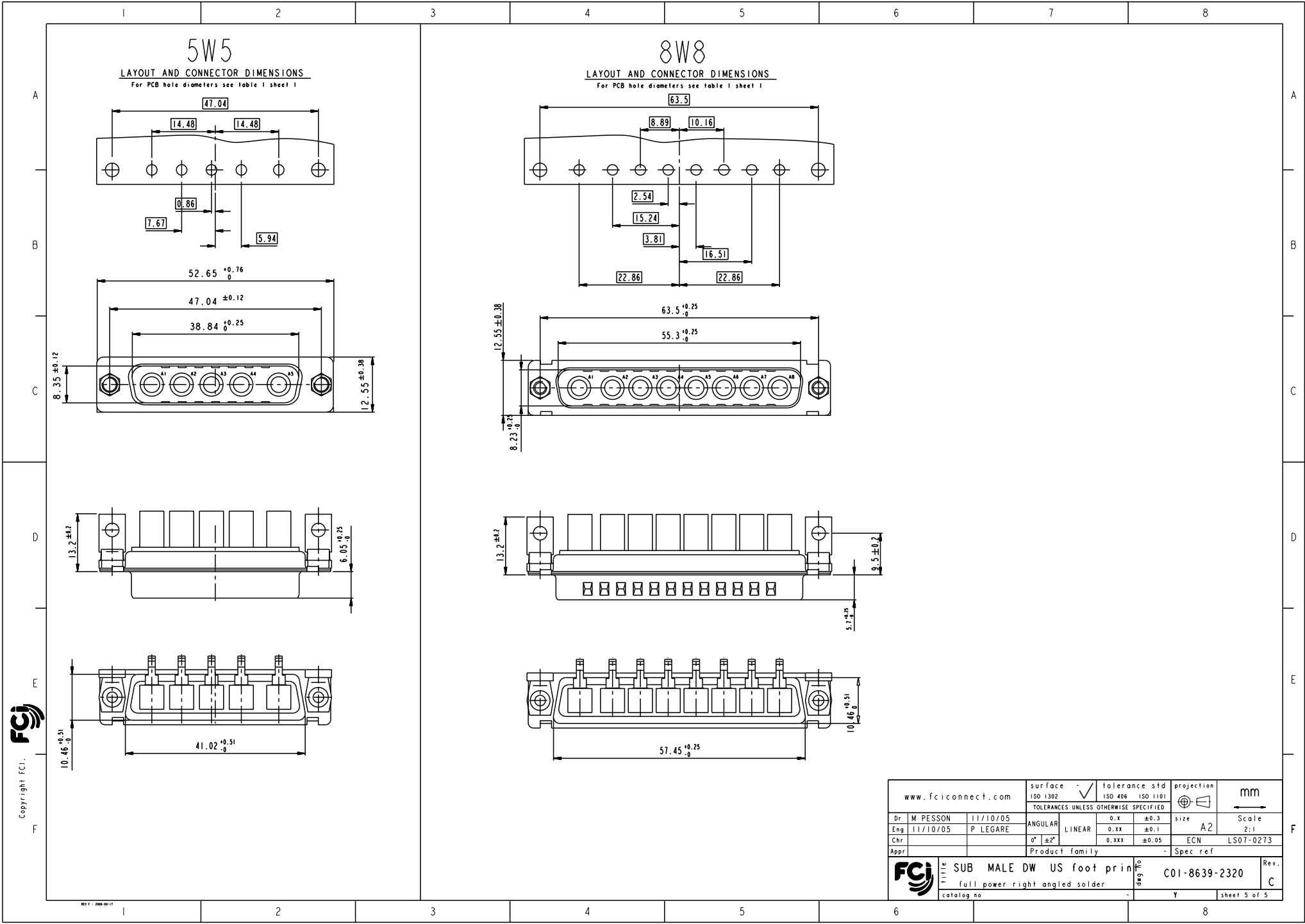


SIDE VIEW FOR ALL LAYOUTS



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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° ±2°	0.XXX	±0.05		Spec ref	
Appr			Product family					
FCI		SUB MALE DW US foot print		full power right angled solder		C01-8639-2320		Rev. C
catalog no				Y		sheet 4 of 5		



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