

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

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

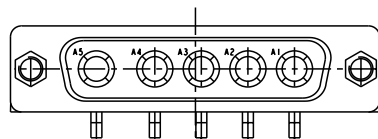
TABLE 1:PCB HOLE DIAMETERS

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	

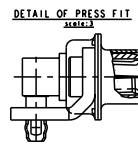
NOTE-1:THESE DIMENSIONS MUST BE RESPECT TO SECURE PRESS-FIT PIN PERFORMANCES.

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

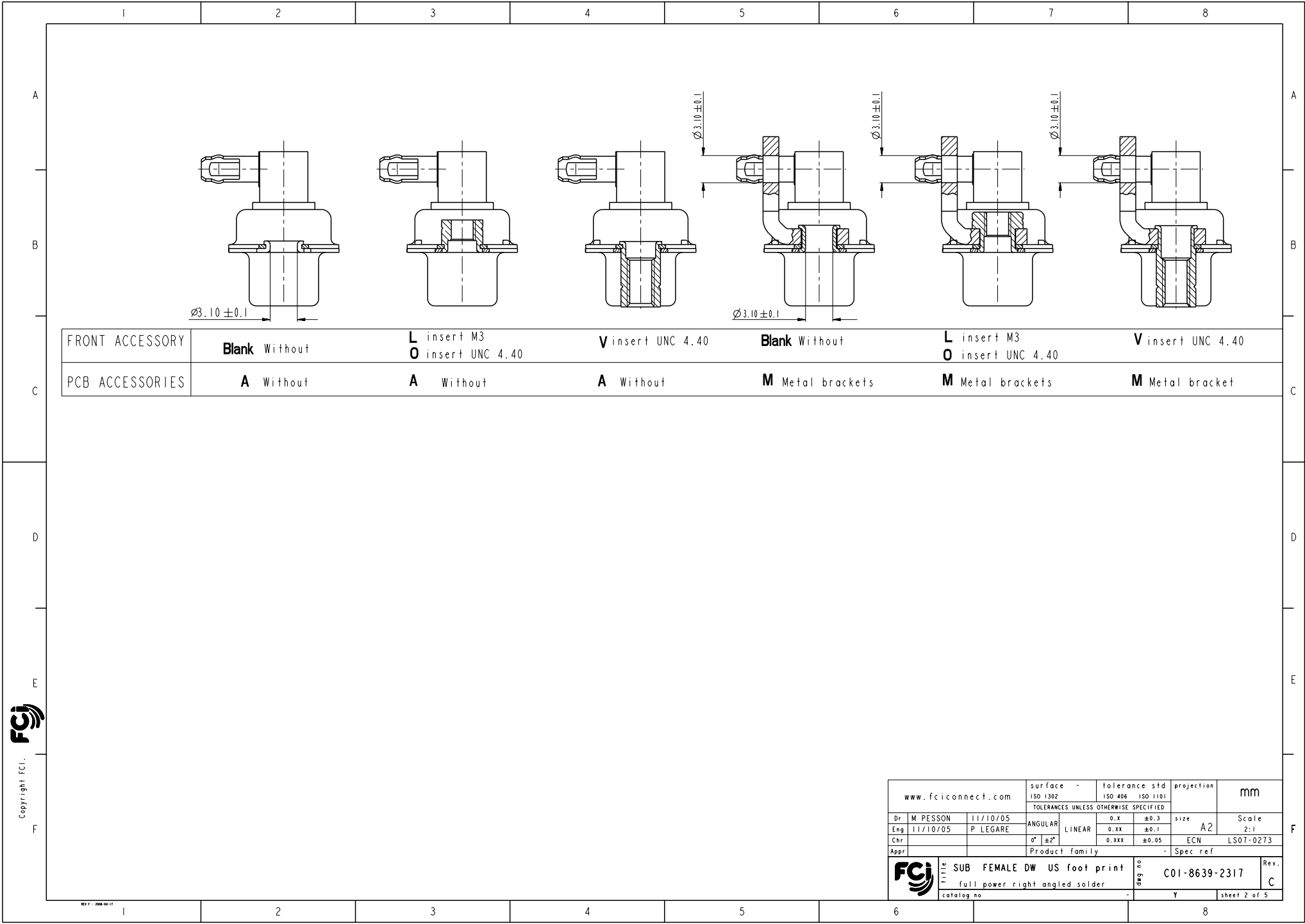
NOTE-3: MAJOR REQUIREMENT FOR PRESS FIT PIN PERFORMANCE



5W5 FOR EXAMPLE



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



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.
		full power right angled solder				C
		catalog no	-	Y	sheet 2 of 5	



LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table 1 sheet 1

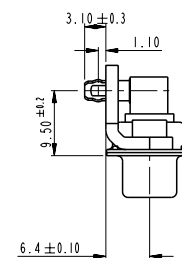


LAYOUT AND CONNECTOR DIMENSIONS
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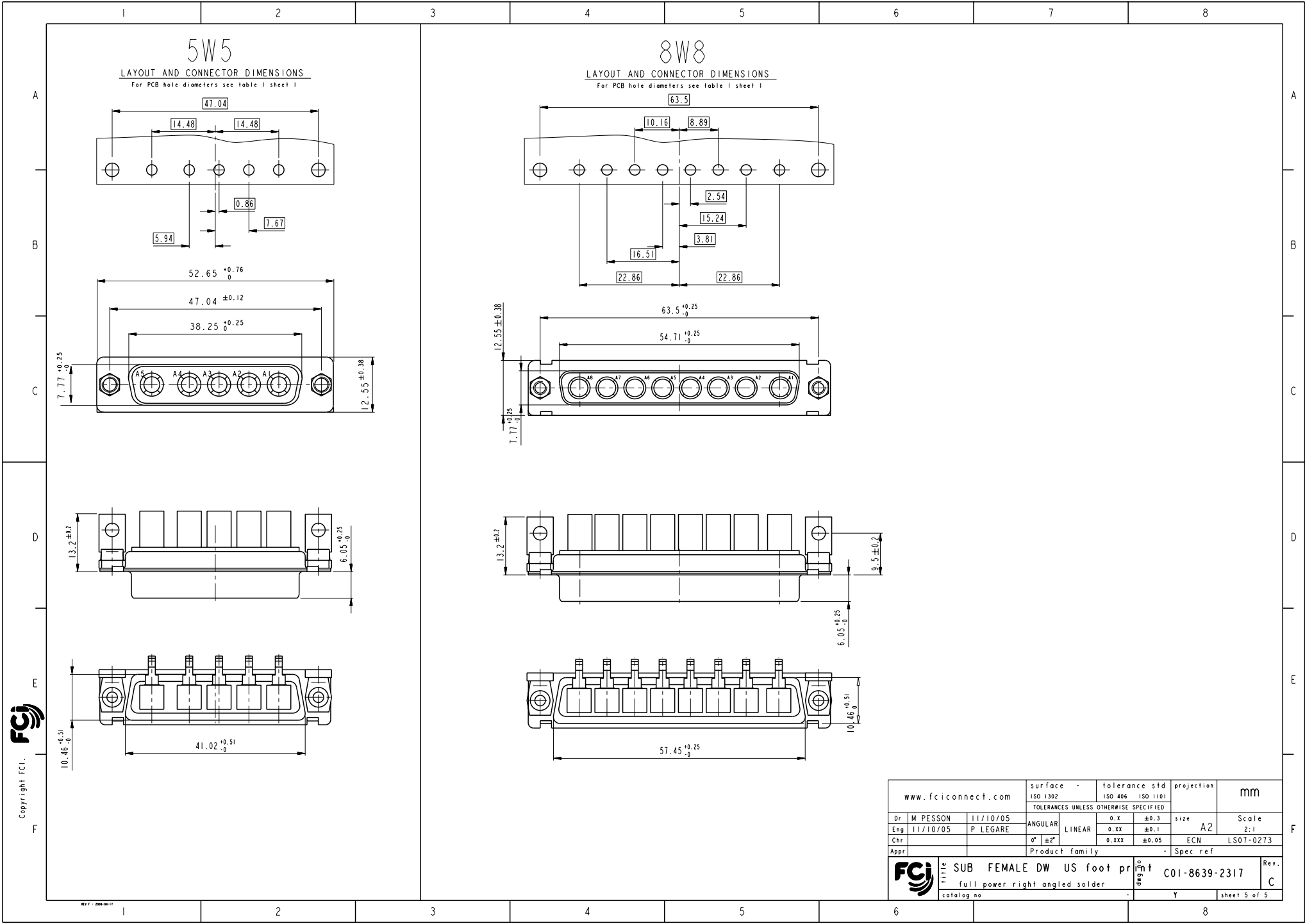


LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table 1 sheet 1

SIDE VIEW FOR ALL LAYOUTS



www.fciconnect.com			surface - 150 1302		tolerance std 150 406 150 1101		projection		mm	
TOLERANCES UNLESS OTHERWISE SPECIFIED										
Dr	M PESSON	11/10/05	ANGULAR	LINEAR	0.X		±0.3	size A2	Scale 2:1	
Eng	11/10/05	P LEGARE			0.XX		±0.1		ECN LS07-0273	
Chr					0.XXX		±0.05			
Appr			0° ±2°		Product family		Scale ref			
FCI			SUB FEMALE DW US foot pr				C01-8639-2317		Rev. C	
full power right angled solder			-		Y		sheet 4 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