

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

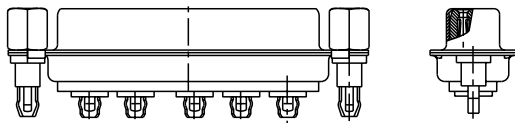
- Female screw : 0.5 N.m minimum

PRESS FIT PERFORMANCES

PRESS FIT CONTACTS	
INSERTION FORCE	<= 200 N
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 1.5µm(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



5W5S93C5G40LF FOR EXAMPLE

Series

DBL5W5S93C5G40LF

Shell size: **E A B C**

see sheet 2

Front accessory definition
see sheet 2

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

93 C Straight version

Plating

5 200 matings/unmatings

6 500 matings/unmatings

PCB accessories definition
see sheet 2

G : Harpoon used for PCB thickness from 1.60 mm

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)	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		

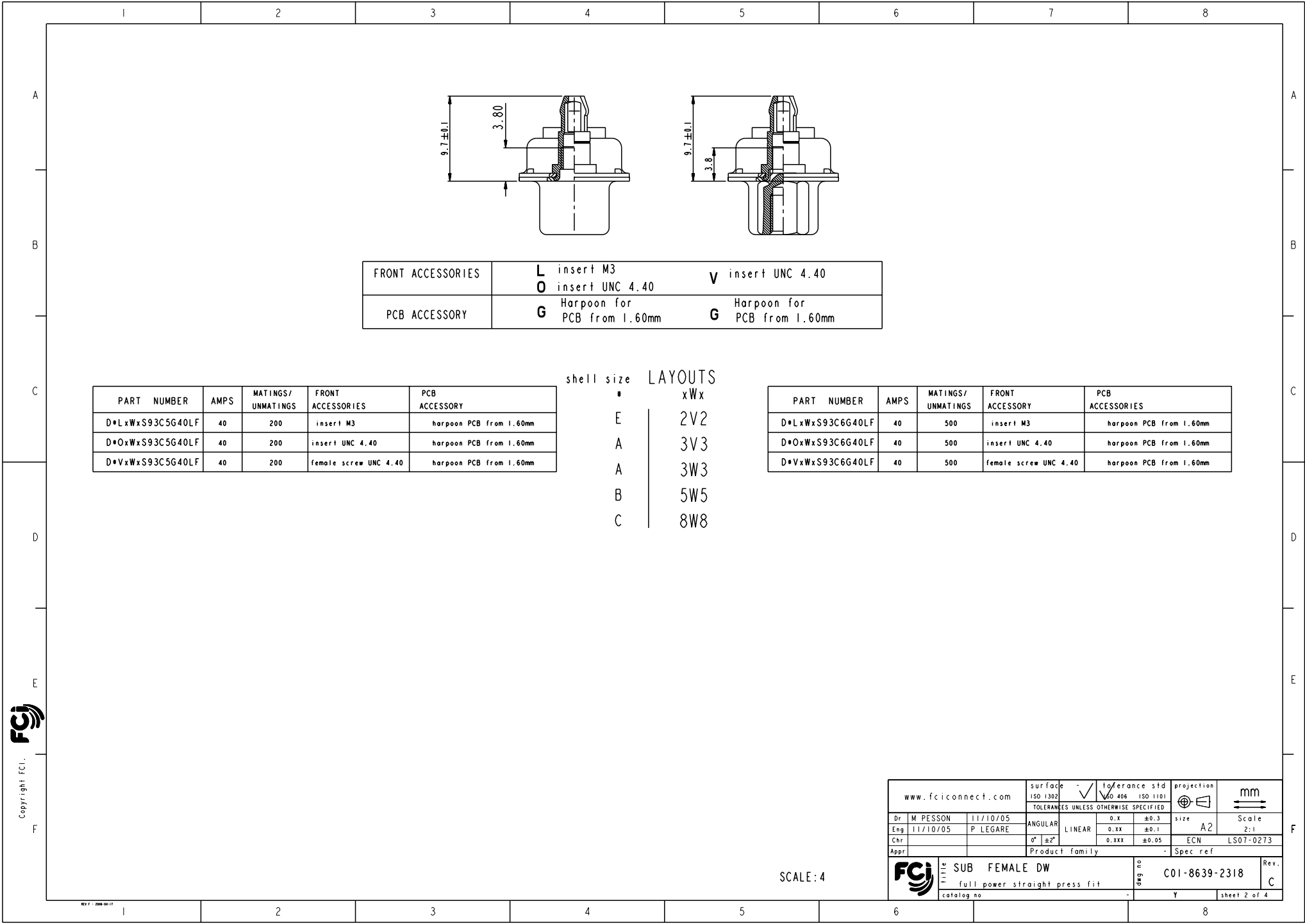
NOTE-1: THESE DIMENSIONS MUST BE RESPECT TO SECURE PRESS-FIT PIN PERFORMANCES.

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

NOTE-3: MAJOR REQUIREMENT FOR PRESS FIT PIN PERFORMANCE

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 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
Eng	11/10/05	P LEGARE			0.XX	±0.1		
Chr			0° ±2°		0.XXX	±0.05	ECN	LS07-0273
Appr			Product family			- Spec ref		
			SUB FEMALE DW		dag no C01-8639-2318		Rev. C	
			full power straight press fit					
catalog no					Y		sheet 1 of 4	



FRONT ACCESSORIES	L insert M3	V insert UNC 4.40
	O insert UNC 4.40	
PCB ACCESSORY	G Harpoon for PCB from 1.60mm	G Harpoon for PCB from 1.60mm

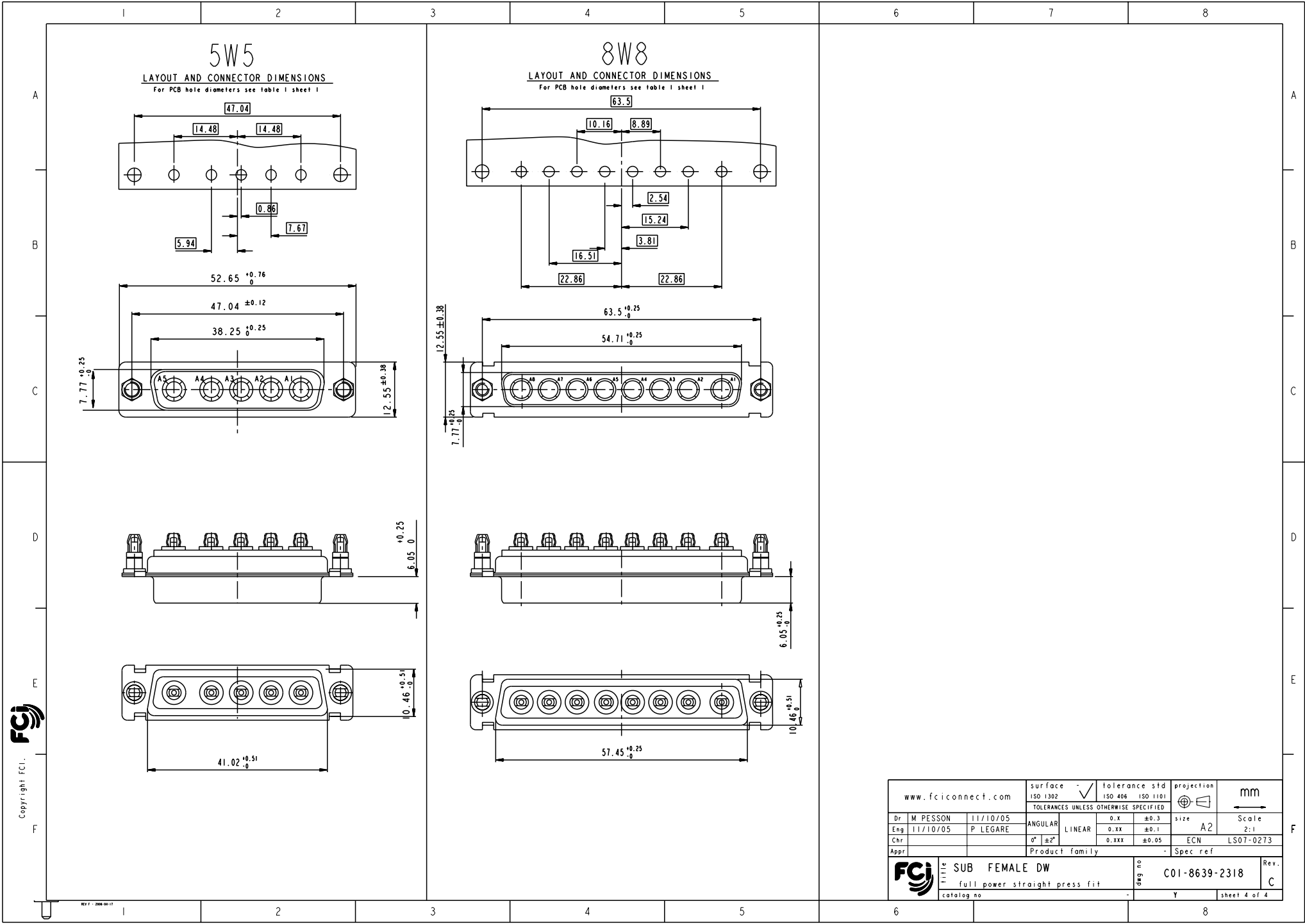
PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORIES	PCB ACCESSORY
D*LxWxS93C5G40LF	40	200	insert M3	harpoon PCB from 1.60mm
D*OxWxS93C5G40LF	40	200	insert UNC 4.40	harpoon PCB from 1.60mm
D*VxWxS93C5G40LF	40	200	female screw UNC 4.40	harpoon PCB from 1.60mm

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

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*LxWxS93C6G40LF	40	500	insert M3	harpoon PCB from 1.60mm
D*OxWxS93C6G40LF	40	500	insert UNC 4.40	harpoon PCB from 1.60mm
D*VxWxS93C6G40LF	40	500	female screw UNC 4.40	harpoon PCB from 1.60mm

SCALE: 4

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		ECN LS07-0273	
Eng 11/10/05		P LEGARE		ANGULAR	LINEAR	Product family	
Chr				0° ±2°	0.XX ±0.1	Spec ref	
Appr				0.XXX ±0.05	0.00 ±0.05	Title SUB FEMALE DW	
				full power straight press fit		deg no C01-8639-2318	
				catalog no		Rev. C	
						sheet 2 of 4	



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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 FEMALE DW		C01-8639-2318		Rev. C	
Title		full power straight press fit		Y		sheet 4 of 4	
catalog no							