

1

2

3

4

5

6

7

8

A

B

C

D

E

F

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 501)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOPLASTIC UL94 V-0

-CONTACT MATERIAL: PHOSPHOR BRONZE
GOLD OVER NICKEL

-ACCESSORIES: BRASS,cadmium plated yellow passivation

-SHELLS: STEEL,cadmium plated yellow passivation

ELECTRICAL CHARACTERISTICS

-NOMINAL CURRENT: 7.5A

-CONTACT RESISTANCE: <= 7.3 m ohms

-CONTACT/CONTACT : >=1000 V

-CONTACT/GROUND : >=1200 V

-INSULATION RESISTANCE: >=5000 MOhms

ENVIRONMENTAL CHARACTERISTICS

- CLIMATIC CATEGORY: 55/125/56

TEMPERATURE RANGE -55°C TO +125°C

DAMP HEAT STEADY STATE 56 DAYS

SALT SPRAY 48 HOURS

MECHANICAL CHARACTERISTICS

- RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m minimum

- Female screw : 0.5 N.m minimum

Series

DBML25S043

Shell size: E A B C D
see sheet 2

Front accessory definition
see sheet 2

Blank :without accessory

F :floating mounting

L :threaded insert M3

O :threaded insert UNC 4-40

V :female screw UNC 4-40

I :female screw M3

Contact number (see sheet 2)

9,15,25,37,50

Contacts

S :Socket

Plating

Blank :solder bucket 500 matings/unmatings

043 :solder bucket 500 matings/unmatings
for harsh environment

25 WAY for Example

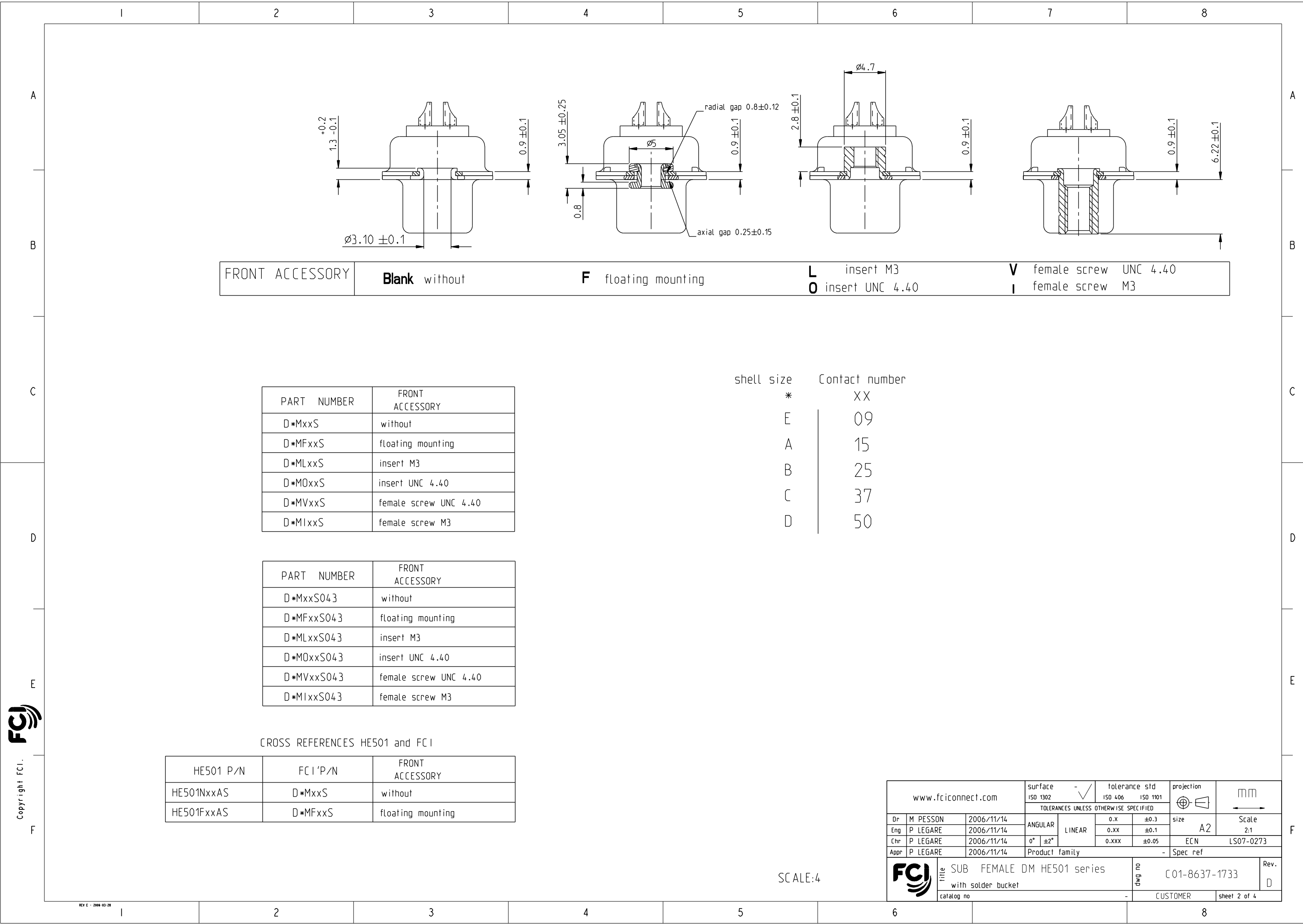
rev	ecn no	dr	date	Dr	M PESSON	2006/11/14	surface ISO 1302	-	tolerance std ISO 406	ISO 1101	projection	mm	
A	LS06-0174	MPE	2006/11/14	Eng	P LEGARE	2006/11/14	ANGULAR	LINEAR	0.X	±0.3	size	Scale	
B	LS07-0217	MLE	2007/08/22	Chr	P LEGARE	2006/11/14	0°	±2°	0.XX	±0.1	A2	2:1	
C	LS07-0273	MPE	2007/10/30	Appr	P LEGARE	2006/11/14	TOLERANCES UNLESS OTHERWISE SPECIFIED			0.XXX	±0.05	ECN	LS07-0273
D	F10-0072	LSA	2010/07/20	Product family			-			Spec ref			
-	-	-	-	FCI			title			SUB FEMALE DM HE501 series			
-	-	-	-	with solder bucket			dwg no			C01-8637-1733			
-	-	-	-	catalog no			-			CUSTOMER			
												Rev.	D
												sheet 1 of 4	

PDS: Rev :D

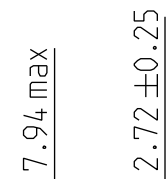
PDM: Rev :D

STATUS:Released

Printed: Jun 18, 2015



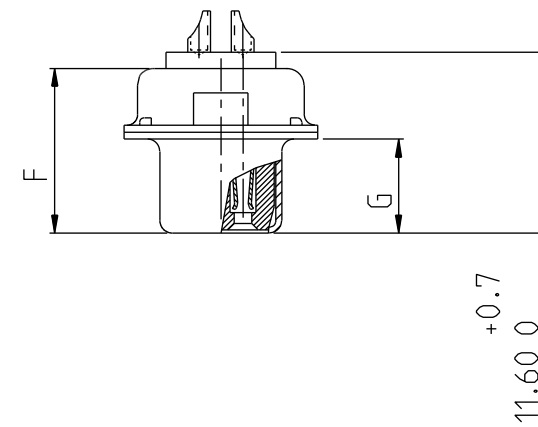
FCI
Copyright FCI.



DIMENSIONS FOR SHELL E,A,B,C

Dimensions are in millimeters

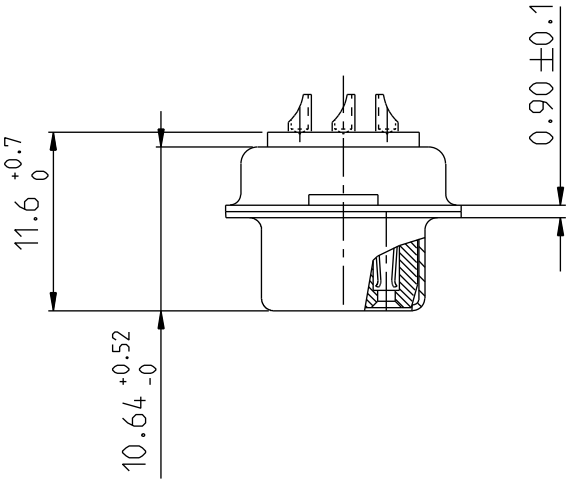
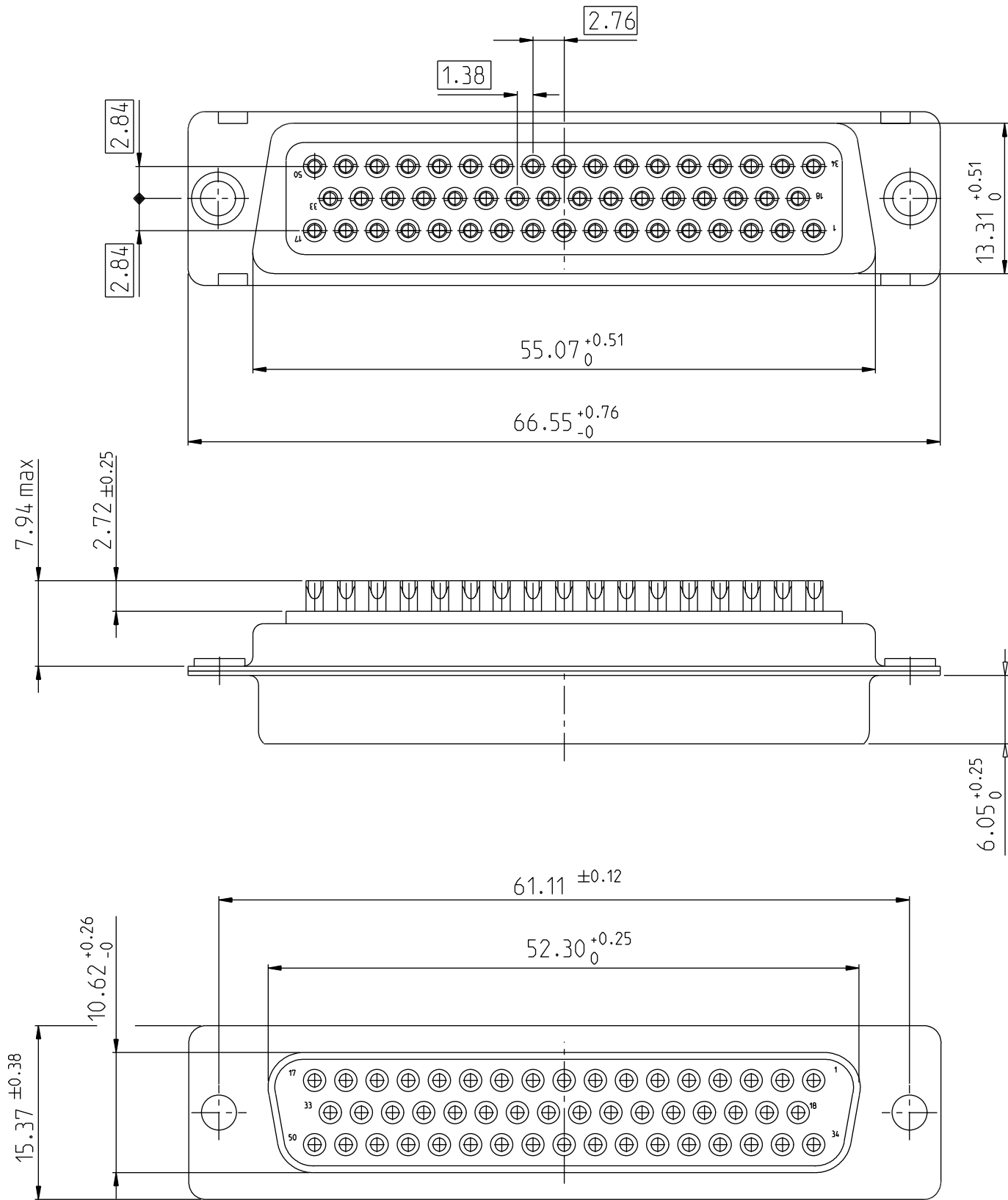
Shell size	Number of contacts	A $^{+0.76}_{-0}$	B $^{+0.25}_{-0}$	C ± 0.12	F $^{+0.57}_{-0}$	G $^{+0.25}_{-0}$	H $^{+0.51}_{-0}$
E	09	30.43	16.21	24.99	10.64	6.05	19.02
A	15	38.76	24.54	33.32	10.64	6.05	27.25
B	25	52.65	38.25	47.04	10.64	6.05	41.02
C	37	68.94	54.71	63.50	10.64	6.05	57.45



scale 3

www.fciconnect.com			surface ISO 1302 		tolerance std ISO 406 ISO 1101		projection 			
			TOLERANCES UNLESS OTHERWISE SPECIFIED							
Dr	M PESSON	2006/11/14	ANGULAR	LINEAR	0.X	±0.3	size	A2	Scale 2:1	
Chr	P LEGARE	2006/11/14			0.XX	±0.1				
Eng	P LEGARE	2006/11/14	0°	±2°	0.XXX	±0.05	ECN		LS07-0273	
Appr	P LEGARE	2006/11/14	Product family				-	Spec ref		
		title SUB FEMALE DM HE501 series with solder bucket				dwg no C01-8637-1733		Rev. D		
		catalog no -				CUSTOMER		sheet 3 of 4		

DIMENSIONS FOR SHELL SIZE D (50 CONTACTS)



scale 3

www.fciconnect.com			surface ISO 1302		- ✓ tolerance std ISO 406 ISO 1101		projection 				
			TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	M PESSON	2006/11/14	ANGULAR	LINEAR	0.X ±0.3		size A2	Scale 2:1			
Eng	P LEGARE	2006/11/14			0.XX ±0.1						
Chr	P LEGARE	2006/11/14			0.XXX ±0.05						
Appr	P LEGARE	2006/11/14	0° ±2°		Product family		- Spec ref		ECN LS07-0273		
			title SUB FEMALE DM HE501 series with solder bucket				dwg no C01-8637-1733		Rev. D		
catalog no			-				CUSTOMER		sheet 4 of 4		