

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	-	tolerance std	projection	mm
A	LS06-0174	MPE	2006/11/14	Eng	P LEGARE	2006/11/14	ISO 1302	✓	ISO 406	ISO 1101	
B	LS07-0217	MLE	2007/08/22	Chr	P LEGARE	2006/11/14	TOLERANCES UNLESS OTHERWISE SPECIFIED				
C	LS07-0273	MPE	2007/10/30	Appr	P LEGARE	2006/11/14	ANGULAR	LINEAR	0.X	±0.3	size
D	F10-0072	LSA	2010/07/20				0°	±2°	0.XX	±0.1	A2
-	-	-	-						0.XXX	±0.05	ECN
-	-	-	-								LS07-0273
-	-	-	-								Spec ref
-	-	-	-								
-	-	-	-								

FCI

title

with solder bucket

catalog no

SUB FEMALE DM HE501 series

dwg no

C01-8637-1733

Rev.

D

www.fciconnect.com

surface

ISO 1302

tolerance std

ISO 406

ISO 1101

projection

mm

ANGULAR

LINEAR

0°

±2°

0.X

±0.3

0.XX

±0.1

0.XXX

±0.05

size

A2

ECN

LS07-0273

Spec ref

Product family

-

Customer

sheet 1 of 4

REV E - 2006-03-28

PDS: Rev :D

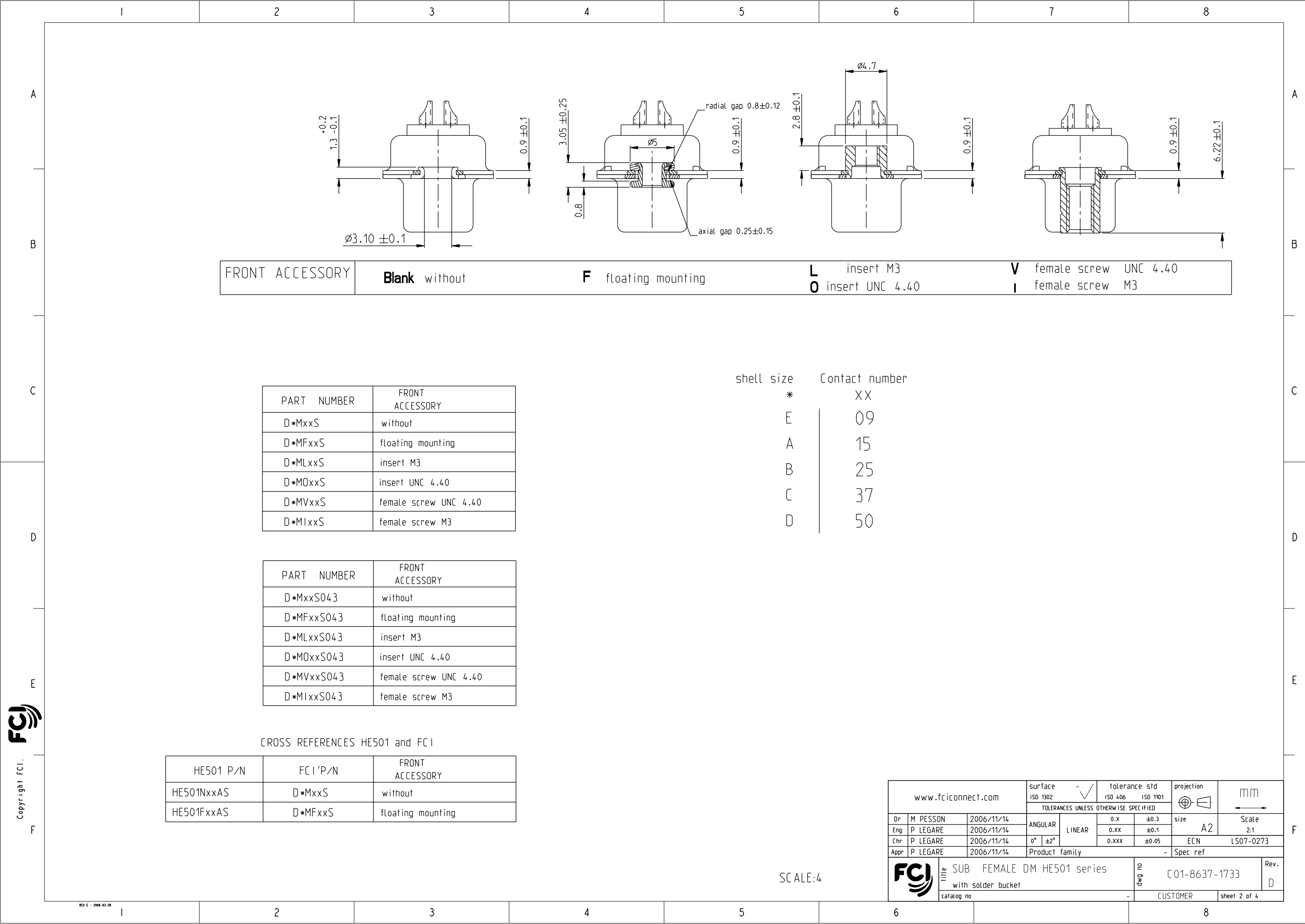
PDM: Rev :D

STATUS:Released

STATUS:Released

Printed: Jun 18, 2015

Printed: Apr 29, 2015



FRONT ACCESSORY	Blank without	F floating mounting	L insert M3 O insert UNC 4.40	V female screw UNC 4.40 I female screw M3
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PART NUMBER	FRONT ACCESSORY
D*MxxS	without
D*MFxxS	floating mounting
D*MLxxS	insert M3
D*M0xxS	insert UNC 4.40
D*MVxxS	female screw UNC 4.40
D*MIxxS	female screw M3

PART NUMBER	FRONT ACCESSORY
D*MxxS043	without
D*MFxxS043	floating mounting
D*MLxxS043	insert M3
D*M0xxS043	insert UNC 4.40
D*MVxxS043	female screw UNC 4.40
D*MIxxS043	female screw M3

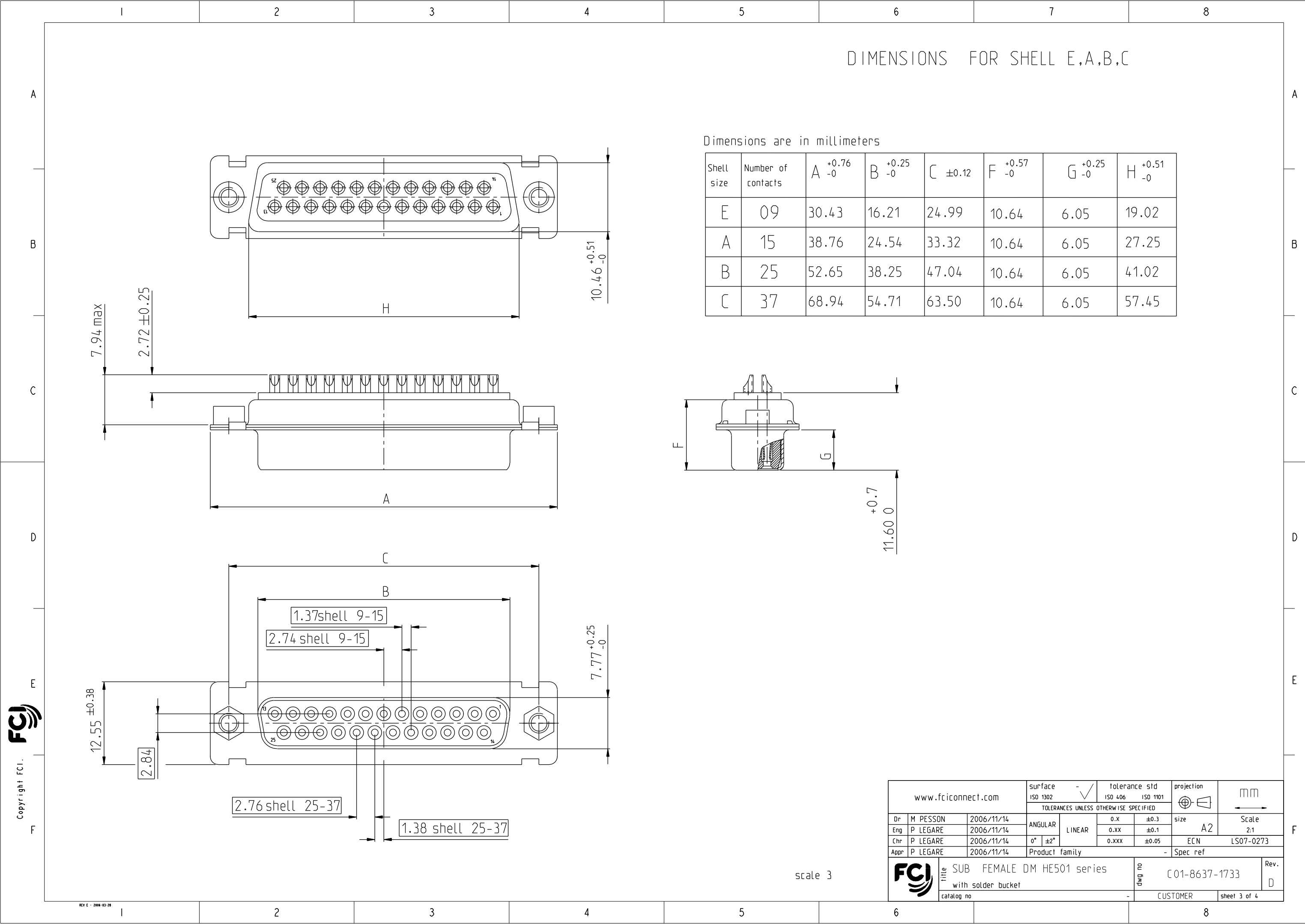
shell size	Contact number
*	XX
E	09
A	15
B	25
C	37
D	50

CROSS REFERENCES HE501 and FCI

HE501 P/N	FCI P/N	FRONT ACCESSORY
HE501NxxAS	D*MxxS	without
HE501FxxAS	D*MFxxS	floating mounting

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			-	ECN LS07-0273 Spec ref	
			title SUB FEMALE DM HE501 series with solder bucket					dwg no C01-8637-1733		Rev. D	
catalog no			-					CUSTOMER		sheet 2 of 4	

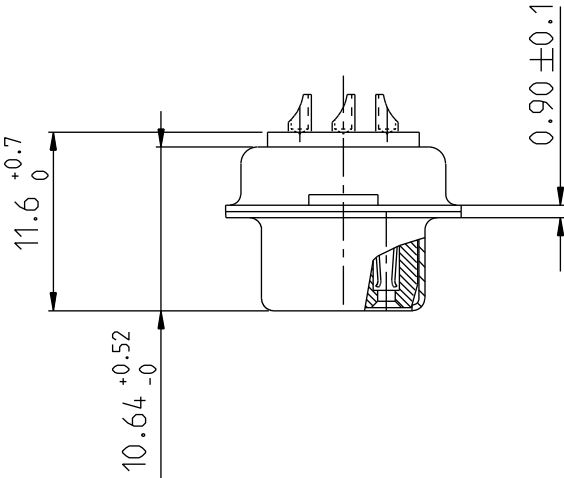
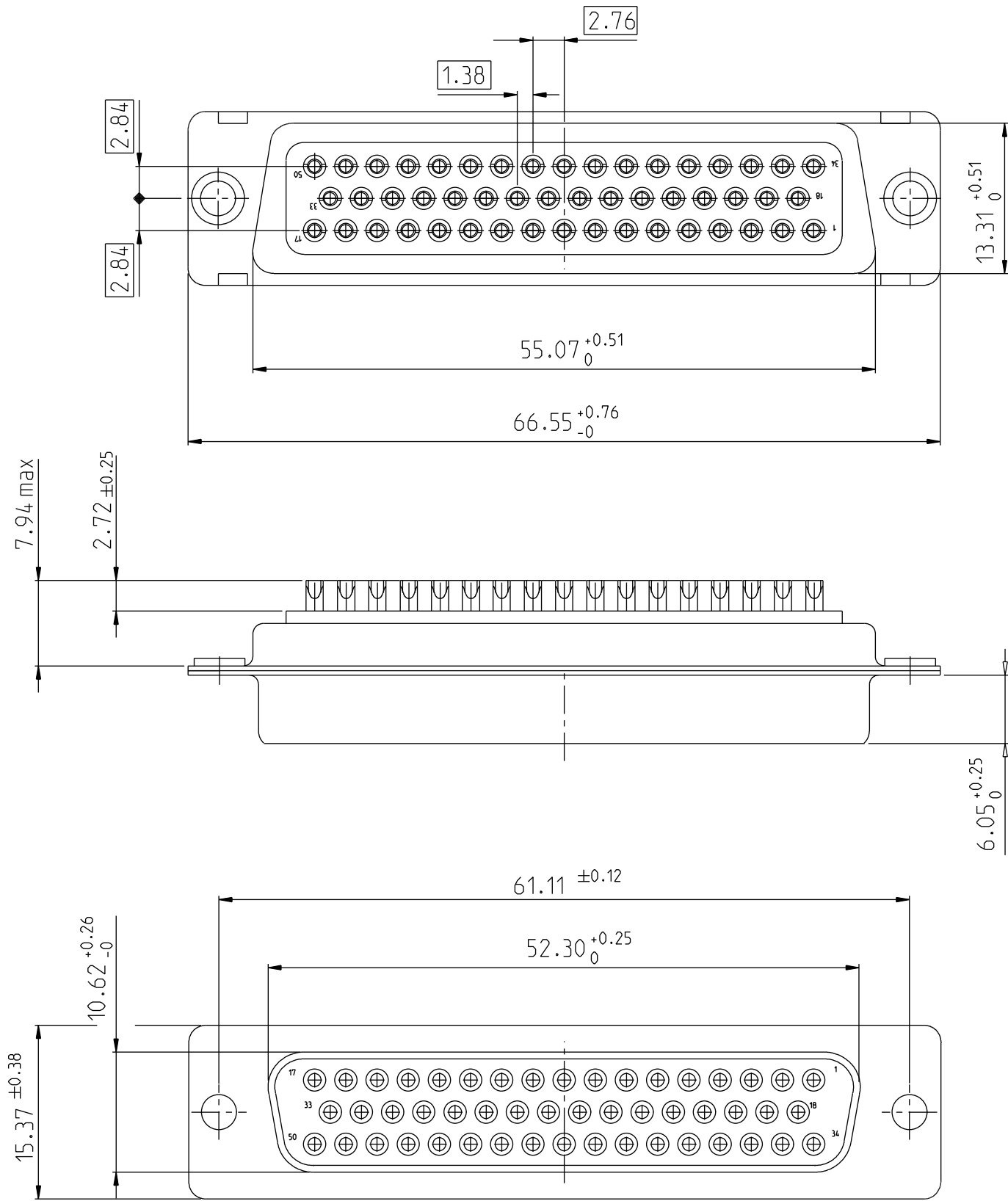
SCALE:4



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	ECN LS07-0273		
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	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		

scale 3

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°				ECN		LS07-0273		
			Product family					-	Spec ref		
			title SUB FEMALE DM HE501 series					dwg no C01-8637-1733		Rev. D	
			with solder bucket								
			catalog no					-	CUSTOMER		sheet 4 of 4