

1

2

3

4

5

6

7

8

A

B

C

D

E

F

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 508)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOSET UL94V0

-CONTACT MATERIAL: BRASS

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: 55/155/56

TEMPERATURE RANGE -55°C TO +155°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

DBML25S043N

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

Obligatory for HE508

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	ANGULAR	LINEAR	0.X ±0.3	size	A2
B	LS07-0273	MPE	2007/10/30	Chr	P LEGARE	2006/11/14	0° ±2°		0.XX ±0.1	Scale	2:1
-	-	-	-	Appr	P LEGARE	2006/11/14			0.XXX ±0.05	ECN	LS07-0273
-	-	-	-							Product family	-
-	-	-	-							Spec ref	

FCI

with solder bucket

catalog no

SUB FEMALE DM HE508 series

deg no

C01-8637-1745

Rev.

B

CUSTOMER

sheet 1 of 4

www.fciconnect.com

ISO 1302

tolerance std

ISO 406

ISO 1101

TOLERANCES UNLESS OTHERWISE SPECIFIED

0.X ±0.3

0.XX ±0.1

0.XXX ±0.05

size

A2

Scale

2:1

ECN

LS07-0273

Product family

-

Spec ref

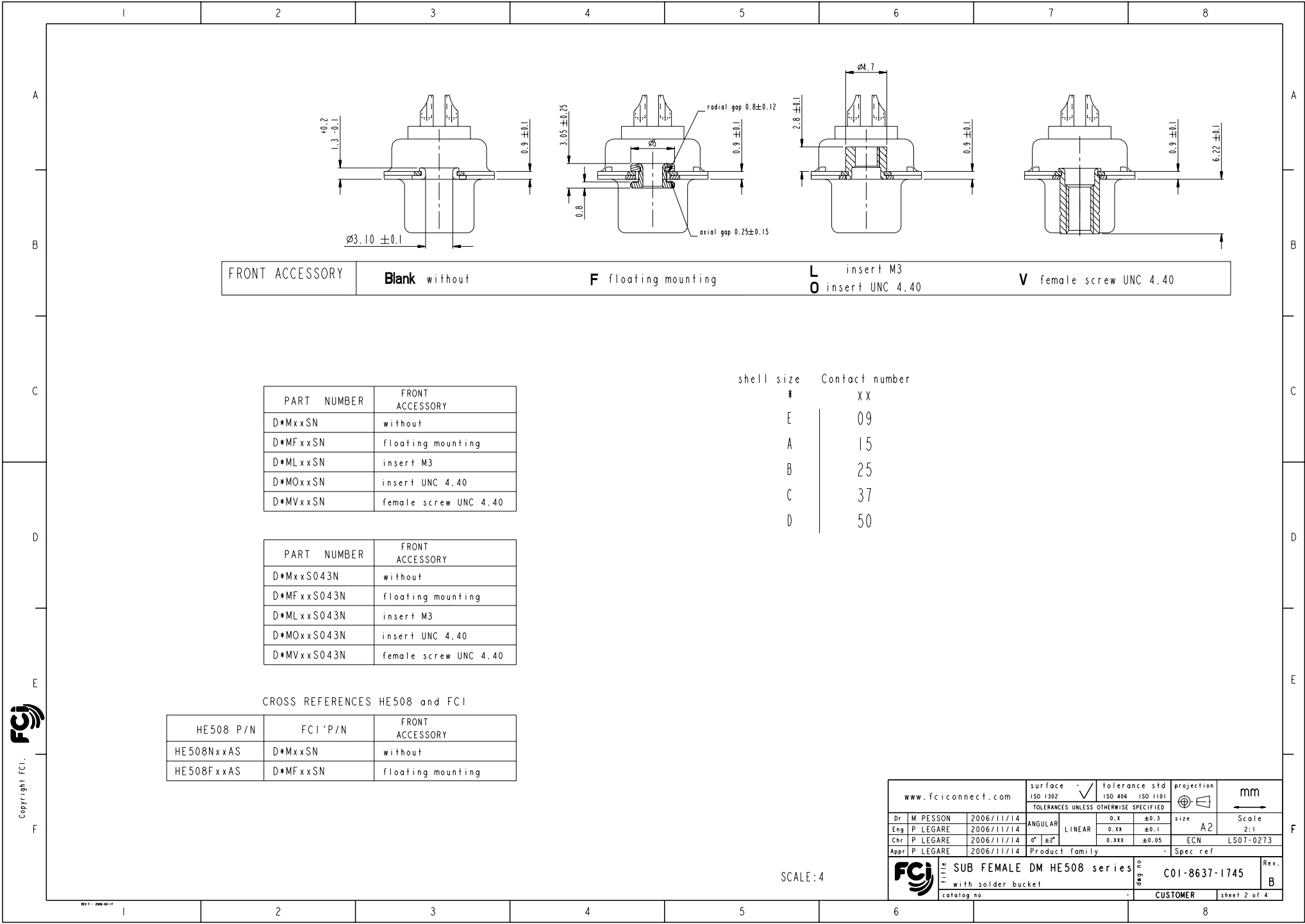
Copyright FCI.

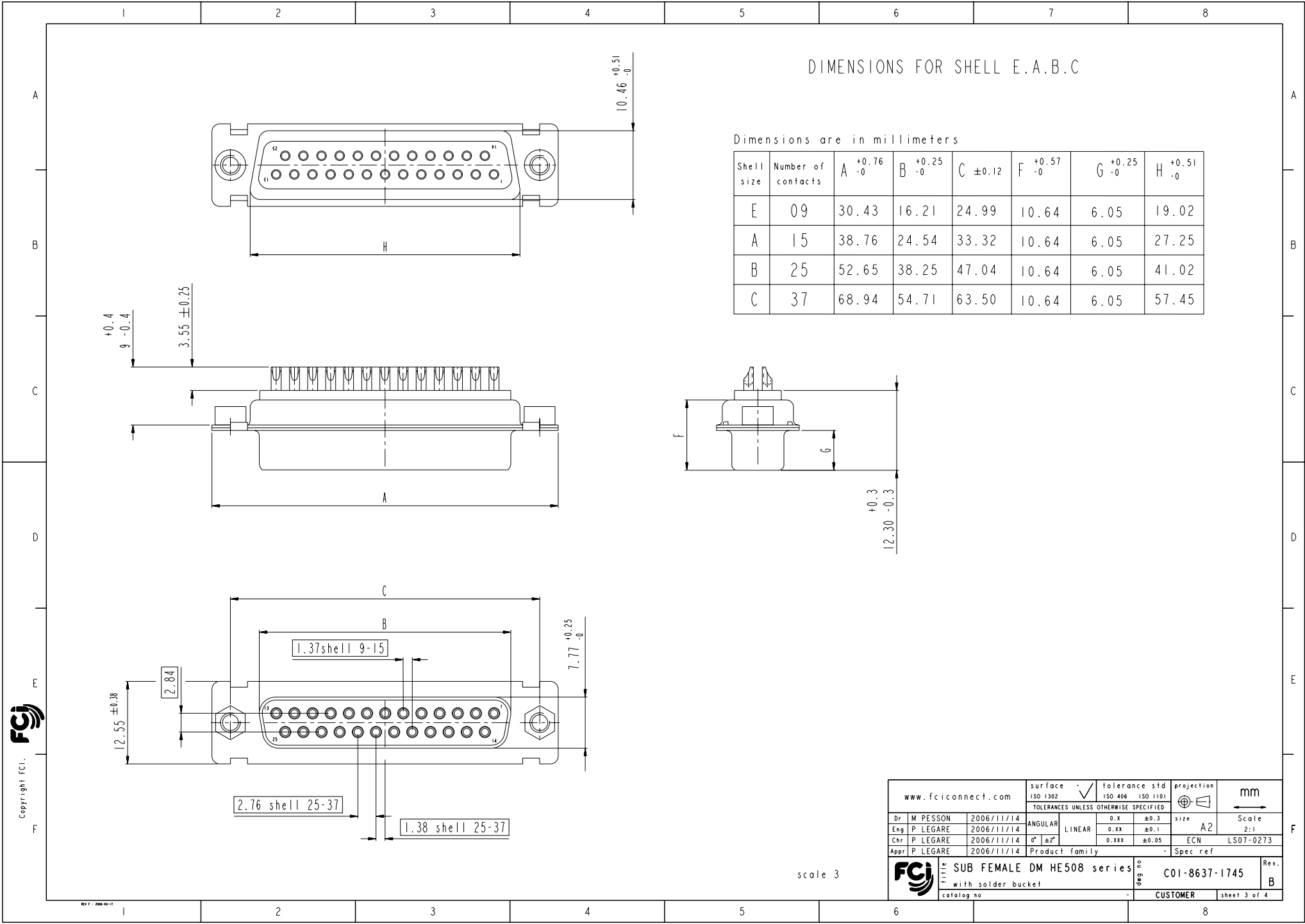
REV 7 - 2006-09-17

PDM-Rev-B-B

STATUS-Released

Printed: Jun 18, 2015

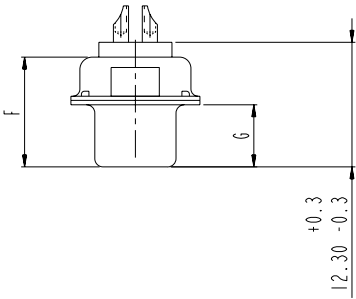




DIMENSIONS FOR SHELL E.A.B.C

Dimensions are in millimeters

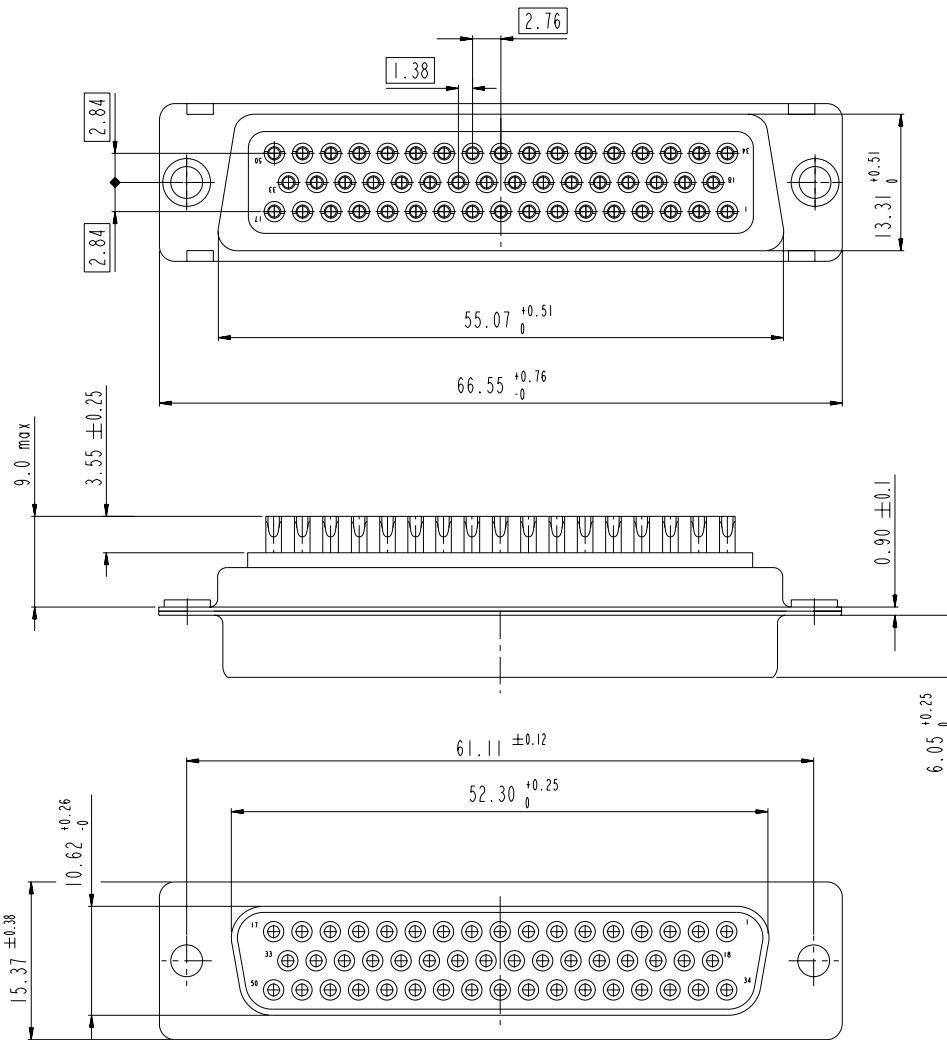
Shell size	Number of contacts	A ^{+0.76 -0}	B ^{+0.25 -0}	C ^{±0.12}	F ^{+0.57 -0}	G ^{+0.25 -0}	H ^{+0.51 -0}
E	09	30.43	16.21	24.99	10.64	6.05	19.02
A	15	38.76	24.54	33.32	10.64	6.05	27.25
B	25	52.65	38.25	47.04	10.64	6.05	41.02
C	37	68.94	54.71	63.50	10.64	6.05	57.45



scale 3

www.fciconnect.com		surface ISO 1302	tolerance std ISO 406	projection ISO 1101	mm	
		TOLERANCES UNLESS OTHERWISE SPECIFIED				
Dr	M PESSON	2006/11/14	ANGULAR	0.X	±0.3	size A2
Eng	P LEGARE	2006/11/14	LINEAR	0.XX	±0.1	Scale 2:1
Chr	P LEGARE	2006/11/14	0° ±2°	0.XXX	±0.05	ECN LS07-0273
Appr	P LEGARE	2006/11/14	Product family	Spec ref		
SUB FEMALE DM HE508 series		deg no	C01-8637-1745		Rev.	B
with solder bucket		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	mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED						
Dr	M PESSON	2006/11/14	ANGULAR	LINEAR	0.X	± 0.3	size	A2
Eng	P LEGARE	2006/11/14	0.XX		0.XX	± 0.1	Scale	2:1
Chr	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 HE508 series		dwg no		C01-8637-1745		Rev.
with solder bucket								B
catalog no				CUSTOMER		sheet 4 of 4		

Mouser Electronics

Authorized Distributor

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