

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 501)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOPLASTIC 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: $\leq 7.3 \text{ m ohms}$

-CONTACT/CONTACT : $\geq 1000 \text{ V}$

-CONTACT/GROUND : $\geq 1200 \text{ V}$

- INSULATION RESISTANCE: $\geq 5000 \text{ M}\Omega$

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 **DBML25P043**

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

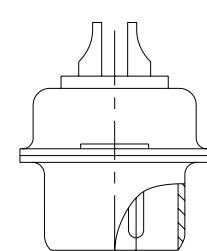
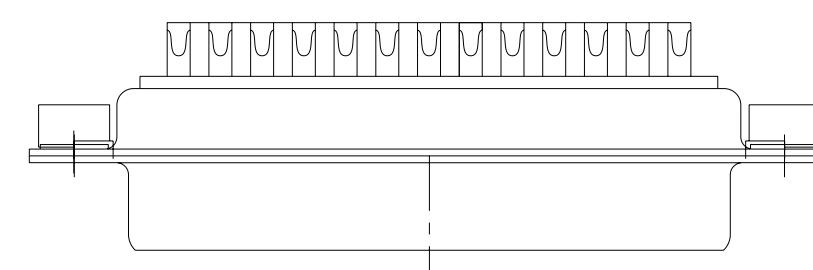
Contact number (see sheet 2)
9,15,25,37,50

Contacts

P :Pin

Plating

Blank :solder bucket 500 matings/unmatings
043 :solder bucket 500 matings/unmatings
for harsh environment



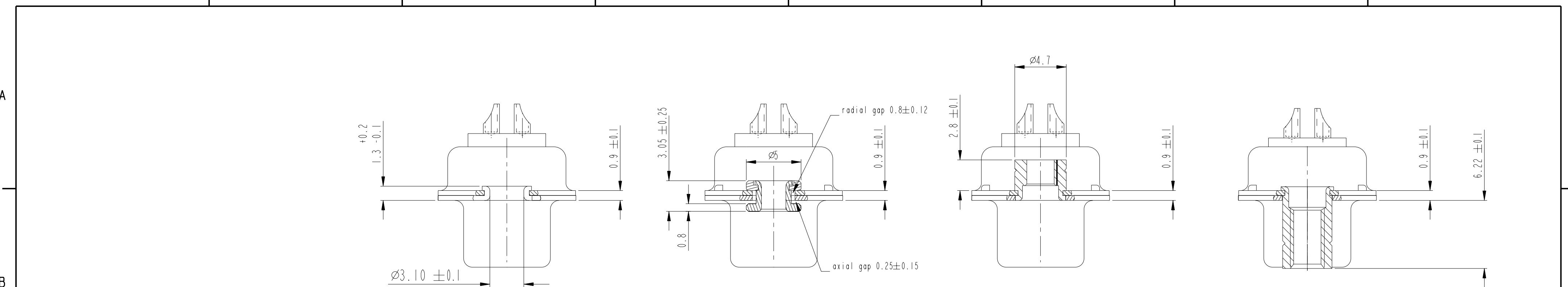
25 WAY for Example

www.fciconnect.com				surface		tolerance std		projection	mm
rev	ecn no	dr	date	ISO 1302				ISO 406	ISO 1101
A	LS06-0174	MPE	2006/11/14	Dr	M PESSON	2006/11/14	ANGULAR	0.X	± 0.3
B	LS07-0273	MPE	2007/10/30	Eng	P LEGARE	2006/11/14	LINEAR	0.XX	± 0.1
C	LS08-0044	MPE	2008/02/04	Chr	P LEGARE	2006/11/14		0.XXX	± 0.05
				Appr	P LEGARE	2006/11/14	Product family		Spec ref
									ECN LS08-0044

FCJ **title** SUB MALE DM HE501 series
with solder bucket **dwg no** C01-8637-1737 **Rev.** C

catalog no **customer** sheet 1 of 4





FRONT ACCESSORY

Blank without

F floating mounting

L insert M3
O insert UNC 4.40

V female screw UNC 4.40

PART NUMBER	FRONT ACCESSORY
D*MxxP	without
D*MFxxP	floating mounting
D*MLxxP	insert M3
D*MOxxP	insert UNC 4.40
D*MVxxP	female screw UNC 4.40

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

PART NUMBER	FRONT ACCESSORY
D*MxxP043	without
D*MFxxP043	floating mounting
D*MLxxP043	insert M3
D*MOxxP043	insert UNC 4.40
D*MVxxP043	female screw UNC 4.40

CROSS REFERENCES HE501 and FCI

HE501 P/N	FCI P/N	FRONT ACCESSORY
HE501NxxAS	D*MxxP	without
HE501FxxAS	D*MFxxP	floating mounting

www.fciconnect.com			surface	-	✓	tolerance std ISO 1302	projection ISO 406 ISO 1101	mm	
			TOLERANCES UNLESS OTHERWISE SPECIFIED						
Dr	M PESSON	2006/11/14	ANGULAR	0.X	±0.3	size	A2	Scale	2:1
Eng	P LEGARE	2006/11/14	LINEAR	0.XX	±0.1	ECN	LS08-0044		
Chr	P LEGARE	2006/11/14	0° ±2°	0.XXX	±0.05				
Appr	P LEGARE	2006/11/14	Product family			Spec ref			
FCI			SUB MALE DM HE501 series			Rev.	C01-8637-1737		
			with solder bucket			dwg no	C		
catalog no				CUSTOMER		sheet 2 of 4			

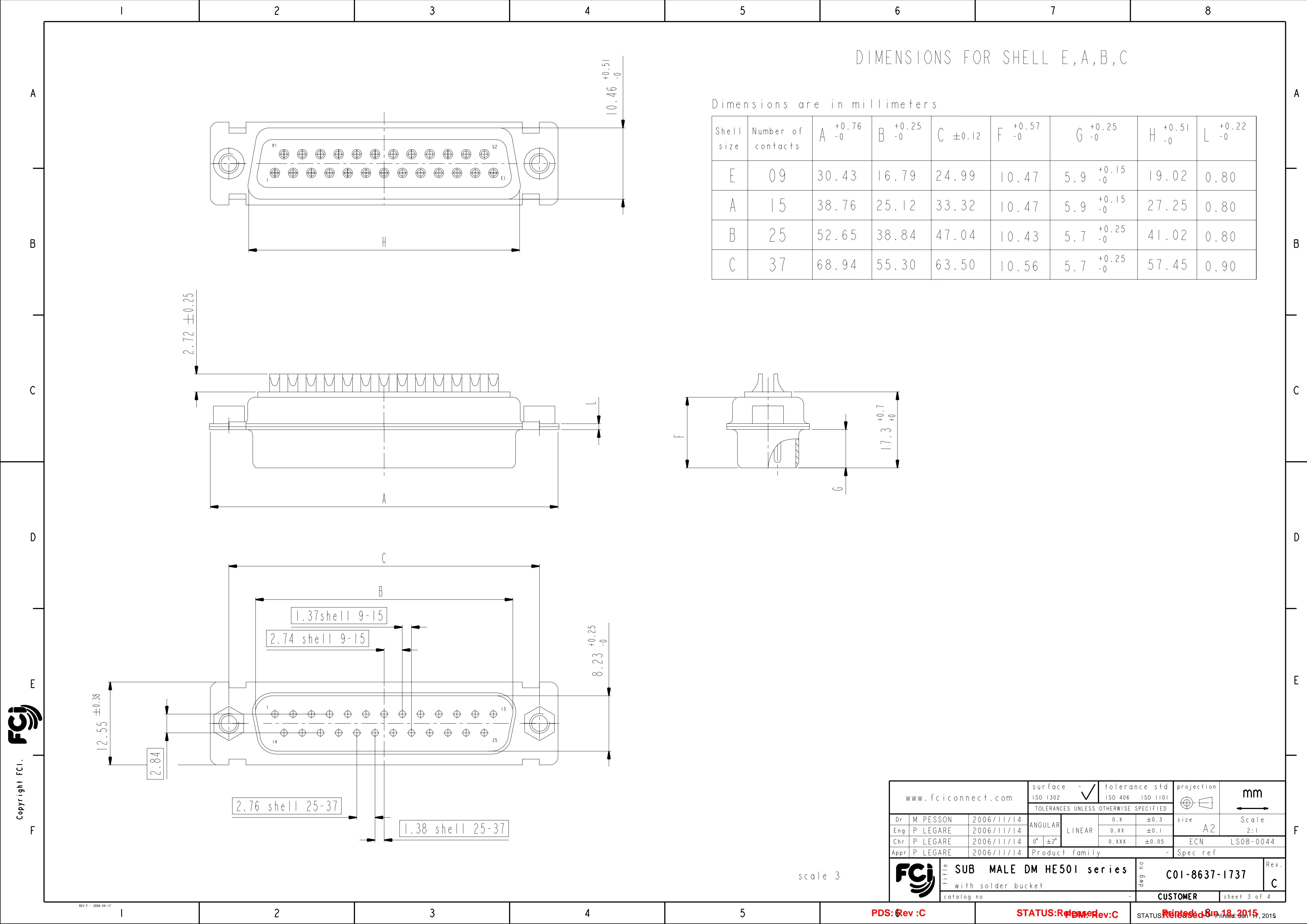
SCALE:4



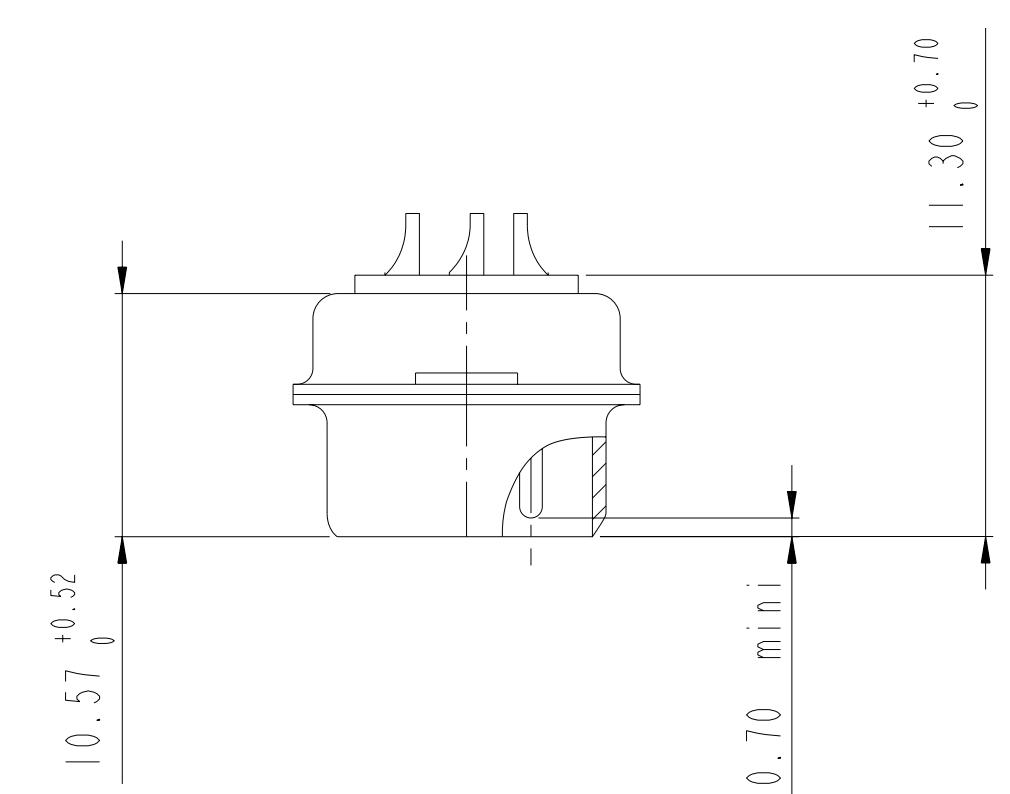
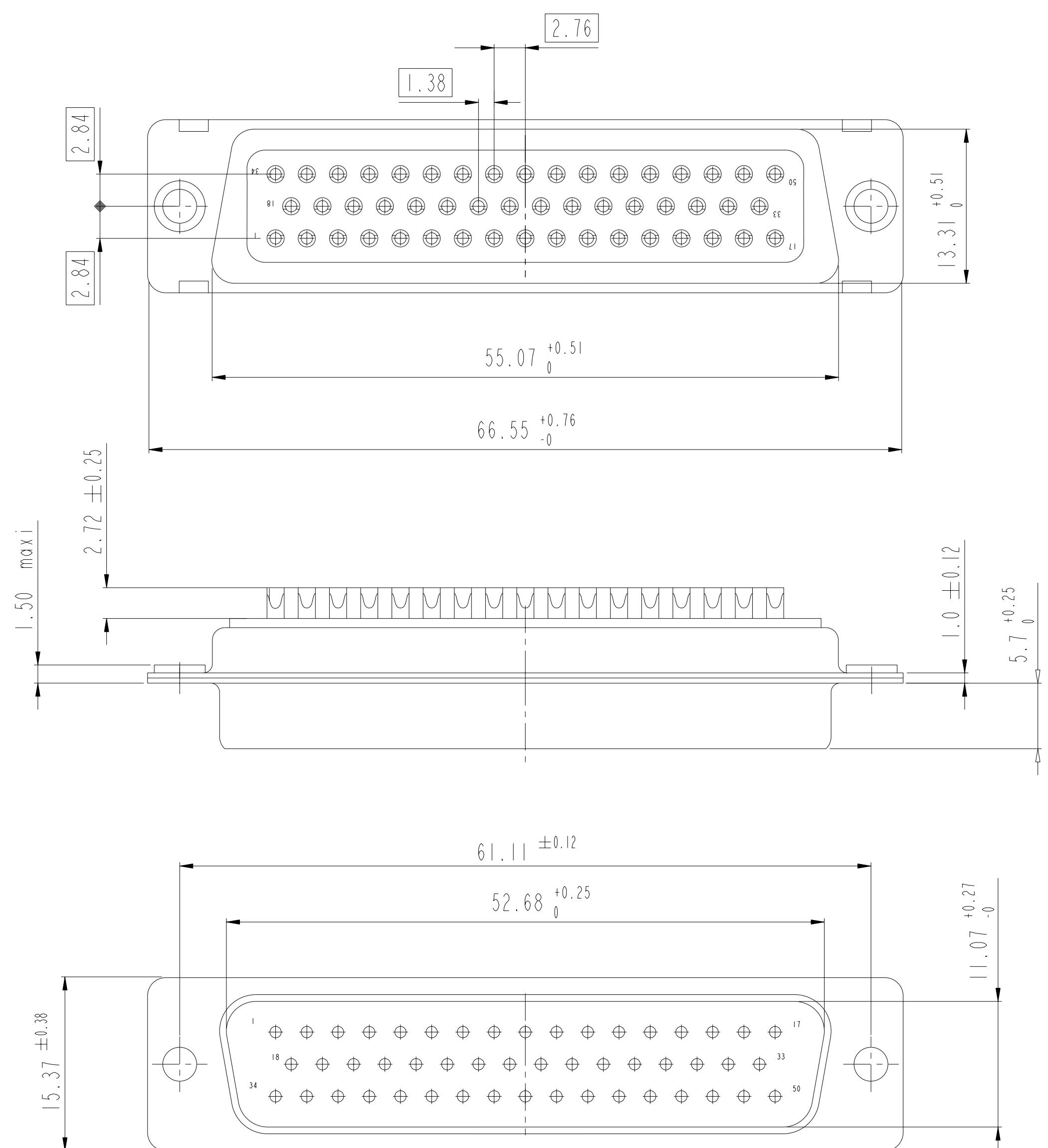
PDS: Rev:C

STATUS: Released Rev:C

Printed: Jun 18, 2015



DIMENSIONS FOR SHELL SIZE D (50 CONTACTS)



www.fciconnect.com			surface	-	tolerance std	projection
Dr	M PESSON	2006/11/14	ISO 1302	✓	ISO 406 ISO 1101	mm
TOLERANCES UNLESS OTHERWISE SPECIFIED						
Eng	P LEGARE	2006/11/14	ANGULAR		0.X	±0.3
Chr	P LEGARE	2006/11/14	LINEAR		0.XX	±0.1
Appr	P LEGARE	2006/11/14	0° ±2°		0.XXX	±0.05
Product family			ECN	LS08-0044		
			Spec ref			
FCI			Rev.	C01-8637-1737		
title			dwg no	C		
SUB MALE DM HE501 series			catalog no			
with solder bucket			customer	sheet 4 of 4		

scale 3



PDS: Rev:C

STATUS: Released Rev:C

Printed: 08/17/2015

Mouser Electronics

Authorized Distributor

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FCI:

[DAM15P](#) [DBM25P](#) [DCM37P](#) [DDM50P](#) [DEM09P](#)