

1

2

3

4

5

6

7

8

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 508)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOSET UL94V0

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

DBML25P043N

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

Obligatory for HE508

25WAY 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	Scale	2:1
B	LS07-0273	MPE	2007/10/30	Chr	P	LEGARE	2006/11/14	0° ±2°		0.XX	±0.1	ECN	LS07-0273		
-	-	-	-	Appr	P	LEGARE	2006/11/14			0.XXX	±0.05	Product family	-	Spec ref	

FCI

SUB MALE DM HE508 series

with solder bucket

catalog no

deg no

C01-8637-1741

Rev.

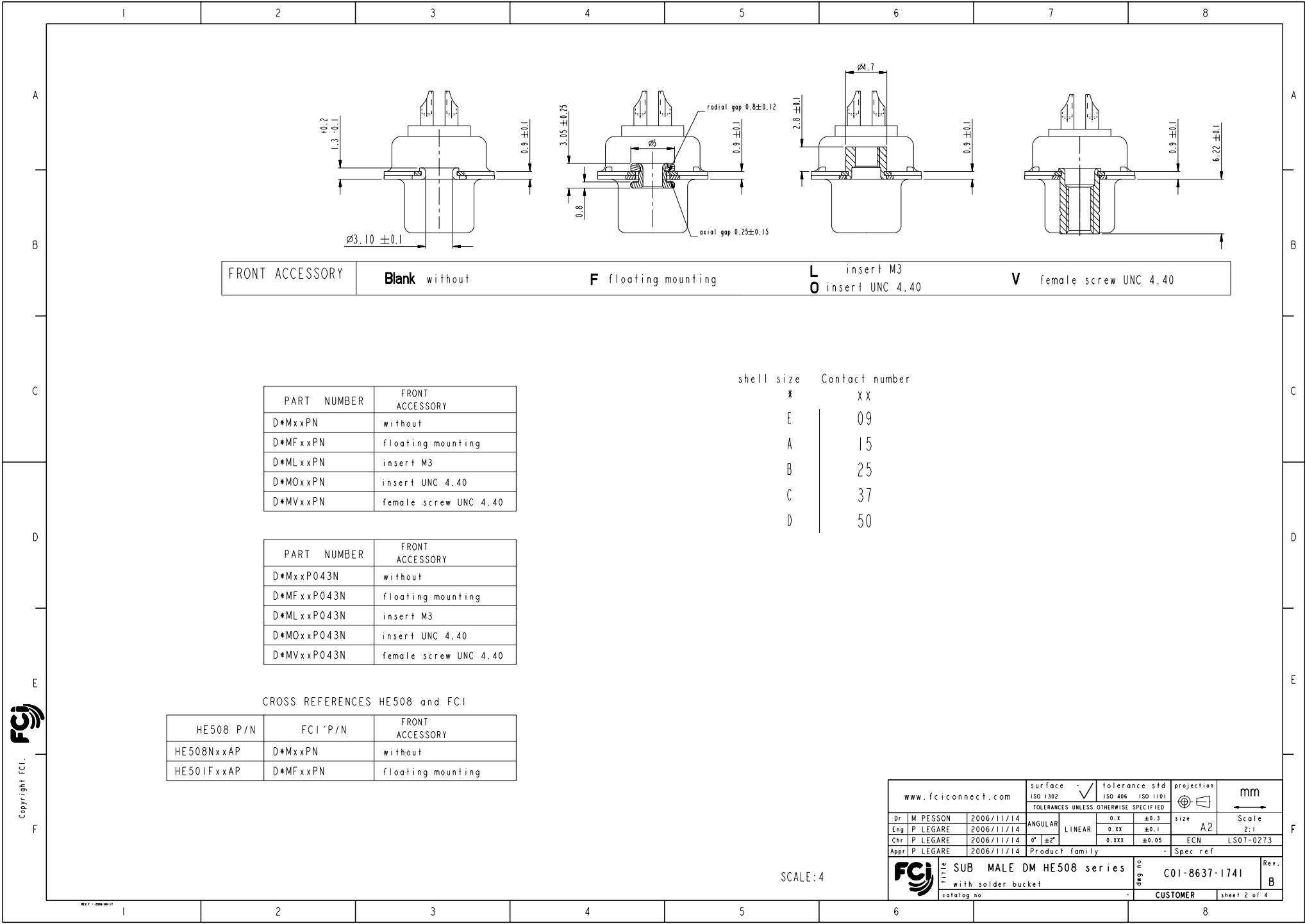
B

CUSTOMER

sheet 1 of 4

Copyright FCI.

REV 7 - 2006-04-17



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*MxxPN	without
D*MFxxPN	floating mounting
D*MLxxPN	insert M3
D*MOxxPN	insert UNC 4.40
D*MVxxPN	female screw UNC 4.40

PART NUMBER	FRONT ACCESSORY
D*MxxP043N	without
D*MFxxP043N	floating mounting
D*MLxxP043N	insert M3
D*MOxxP043N	insert UNC 4.40
D*MVxxP043N	female screw UNC 4.40

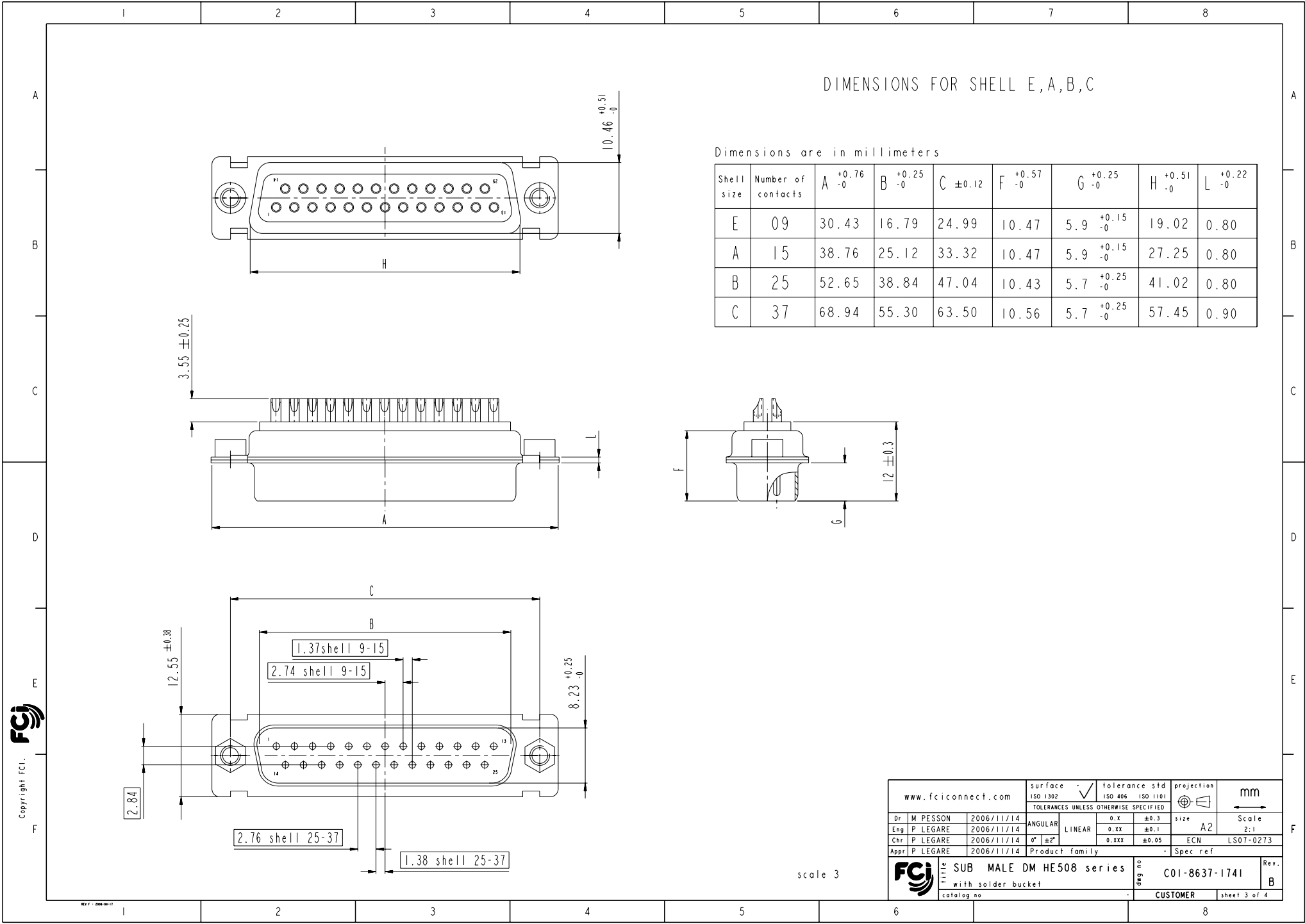
shell size	Contact number
#	XX
E	09
A	15
B	25
C	37
D	50

CROSS REFERENCES HE508 and FCI

HE508 P/N	FCI P/N	FRONT ACCESSORY
HE508NxxAP	D*MxxPN	without
HE501FxxAP	D*MFxxPN	floating mounting

SCALE: 4

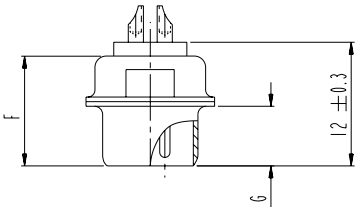
www.fciconnect.com		surface ISO 1302	tolerance std ISO 406 ISO 1101	projection size A2	mm Scale 2:1
TOLERANCES UNLESS OTHERWISE SPECIFIED		ANGULAR	LINEAR	size A2	Scale 2:1
Dr M PESSON	2006/11/14	0.X	±0.3	ECN	LS07-0273
Eng P LEGARE	2006/11/14	0.XX	±0.1	Product family	Spec ref
Chr P LEGARE	2006/11/14	0° ±2°	0.XXX ±0.05		
Appr P LEGARE	2006/11/14				
SUB MALE DM HE508 series		with solder bucket		C01-8637-1741	
catalog no		CUSTOMER		sheet 2 of 4	



DIMENSIONS FOR SHELL E,A,B,C

Dimensions are in millimeters

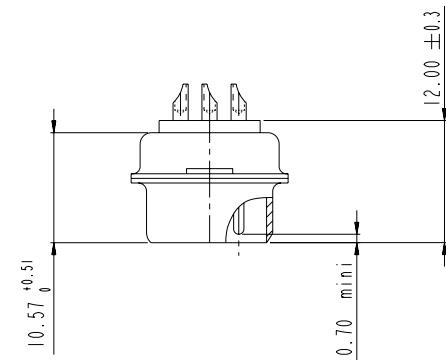
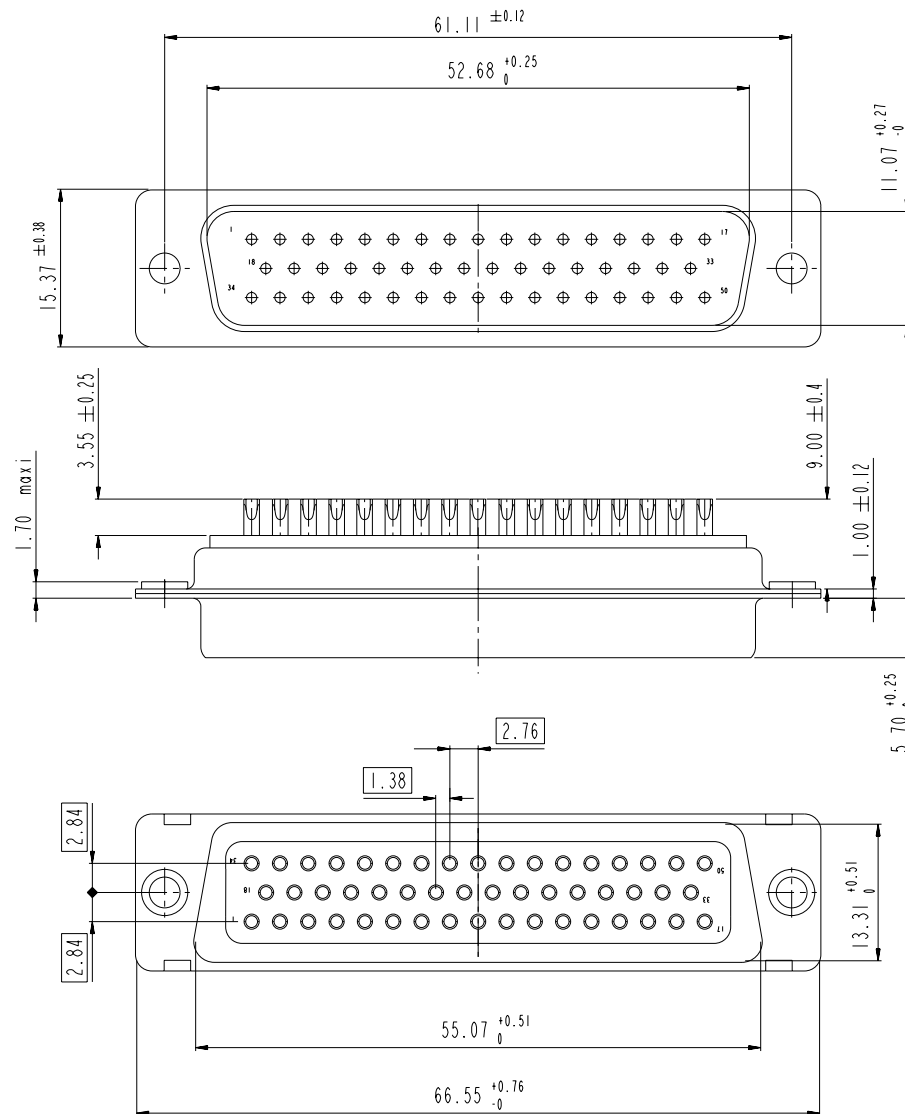
Shell size	Number of contacts	A ^{+0.76 -0}	B ^{+0.25 -0}	C ±0.12	F ^{+0.57 -0}	G ^{+0.25 -0}	H ^{+0.51 -0}	L ^{+0.22 -0}
E	09	30.43	16.79	24.99	10.47	5.9 ^{+0.15 -0}	19.02	0.80
A	15	38.76	25.12	33.32	10.47	5.9 ^{+0.15 -0}	27.25	0.80
B	25	52.65	38.84	47.04	10.43	5.7 ^{+0.25 -0}	41.02	0.80
C	37	68.94	55.30	63.50	10.56	5.7 ^{+0.25 -0}	57.45	0.90



scale 3

www.fciconnect.com			surface ☒ tolerance std ISO 1302 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 ±0.1	
Chr	P LEGARE	2006/11/14			0.XXX ±0.05	
Appr	P LEGARE	2006/11/14	Product family		ECN LS07-0273	Scale 2:1
					- Spec ref	
			SUB MALE DM HE508 series		Rev. B	
with solder bucket			catag no -		CUSTOMER	sheet 3 of 4

DIMENSIONS FOR SHELL SIZE D (50 CONTACTS)



scale 3

www.fciconnect.com			surface ☒ tolerance std ISO 1302 ISO 406 ISO 1101		projection 		mm 	
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			0.0	±0.1		
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 MALE DM HE508 series				C01-8637-1741	
with solder bucket			dag no				Rev. B	
catalog no			-		CUSTOMER		sheet 4 of 4	