

1

2

3

4

5

6

7

8

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 508)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOSET UL94V0

-CONTACT MATERIAL: BRASS
GOLD OVER NICKEL

-ACCESSORIES: STEEL FOR METAL BRACKETS
Cadmium plated, yellow passivation
THERMOPLASTIC UL94V0 FOR PLASTIC BRACKETS

BRASS FOR OTHERS ACCESSORIES
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 min

-Female screw:0.5 N.m min

DBML25S500MN

Series

Shell size: E A B C D
(see sheet 3)

Front accessory definition
(see sheet 2)

Blank :without accessory
L :threaded insert M3
O :threaded insert UNC 4-40
V :female screw UNC 4-40

Layout of contacts (see sheet 3)
9,15,25,37,50

Contacts
S :Socket

Termination type
5 Right angle/Europe standard

Plating
00 Right angle 500 matings/unmatings
43 Right angle 500 matings/unmatings
for harsh environment

PCB accessories definition(see sheet 2)

Blank :Plastic brackets
C :Without brackets
M :Metal brackets

25 WAY FOR EXAMPLE

www.fciconnect.com

surface -
ISO 1302

tolerance std
ISO 406 ISO 1101

projection
TOLERANCES UNLESS OTHERWISE SPECIFIED

Dr M PESSON
2006/11/14

Eng P LEGARE
2006/11/14

Chr P LEGARE
2006/11/14

Appr P LEGARE
2006/11/14

ANGULAR

LINEAR

0° ±2°

0.X ±0.3

0.XX ±0.1

0.XXX ±0.05

size A2

ECN LS06-0174

Scale 2:1

Spec ref

FCi

title SUB FEMALE DM HE508 series
with right angle contact

dwg no C01-8637-1748

Rev. A

catalog no

CUSTOMER

sheet 1 of 9

FCi

Copyright FCi.

1

2

3

4

5

6

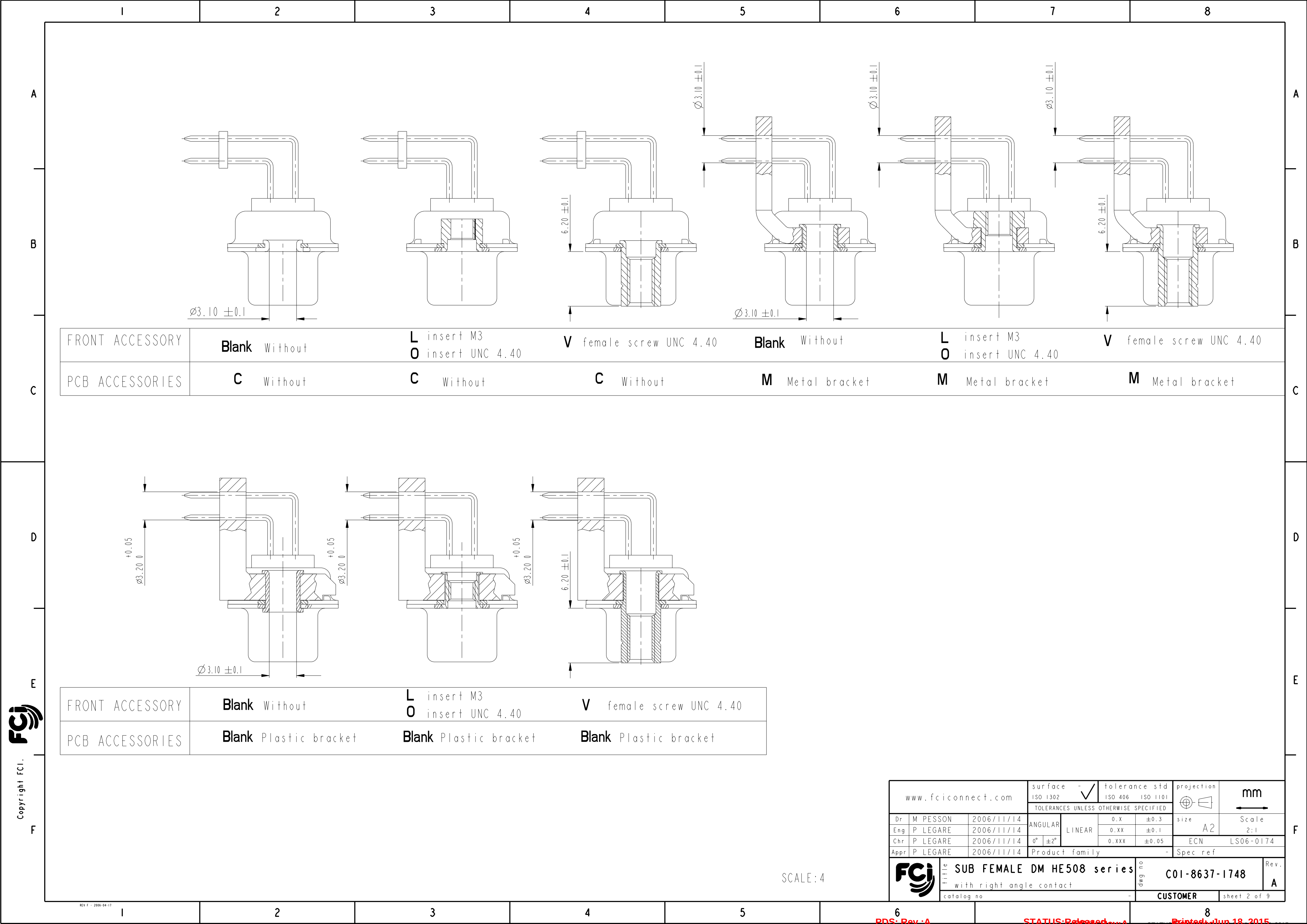
7

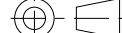
8

PDS: Rev: A

STATUS: Released

Printed: Jun 18, 2015



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	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 LS06-0174			
			Product family					-		Spec ref		
			SUB FEMALE DM HE508 series					dwg no		C01-8637-1748		Rev. A
			with right angle contact									
			catalog no					-		CUSTOMER		sheet 2 of 9

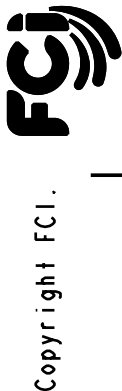
PART NUMBER	FRONT ACCESSORY	PCB ACCESSORY
D*MxxS500CN	without	without
D*MLxxS500CN	insert M3	without
D*MOxxS500CN	insert UNC 4.40	without
D*MVxxS500CN	female screw UNC 4.40	without
D*MxxS500MN	without	Metal bracket
D*MLxxS500MN	insert M3	Metal bracket
D*MOxxS500MN	insert UNC 4.40	Metal bracket
D*MVxxS500MN	female screw UNC 4.40	Metal bracket
D*MxxS500N	without	Plastic bracket
D*MLxxS500N	insert M3	Plastic bracket
D*MOxxS500N	insert UNC 4.40	Plastic bracket
D*MVxxS500N	female screw UNC 4.40	Plastic bracket

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

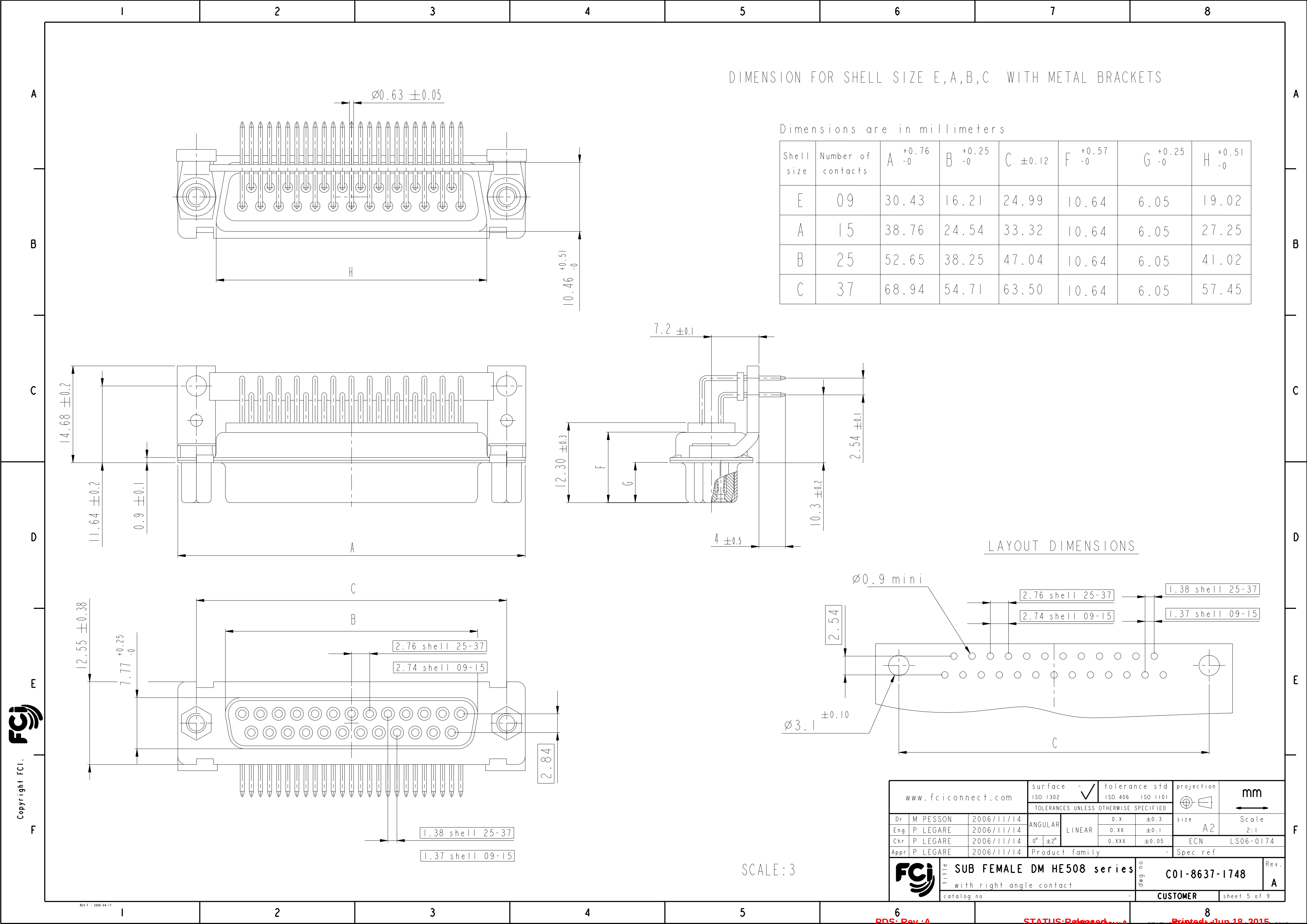
PART NUMBER	FRONT ACCESSORY	PCB ACCESSORY
D*MxxS543CN	without	without
D*MLxxS543CN	insert M3	without
D*MOxxS543CN	insert UNC 4.40	without
D*MVxxS543CN	female screw UNC 4.40	without
D*MxxS543MN	without	Metal bracket
D*MLxxS543MN	insert M3	Metal bracket
D*MOxxS543MN	insert UNC 4.40	Metal bracket
D*MVxxS543MN	female screw UNC 4.40	Metal bracket
D*MxxS543N	without	Plastic bracket
D*MLxxS543N	insert M3	Plastic bracket
D*MOxxS543N	insert UNC 4.40	Plastic bracket
D*MVxxS543N	female screw UNC 4.40	Plastic bracket

CROSS REFERENCES HE508 and FCI

HE508 P/N	FCI 'P/N	FRONT ACCESSORY	PCB ACCESSORY
HE508PxxVS6	D*MxxS500N	without	Plastic bracket
HE508MxxVS6	D*MxxS500MN	without	Metal bravket



www.fciconnect.com			surface - ☒ ISO 1302		tolerance std - ☒ ISO 406 - ☒ ISO 1101		projection		mm	
			TOLERANCES UNLESS OTHERWISE SPECIFIED						Scale 2:1	
Dr	M PESSON	2006/11/14	ANGULAR	LINEAR	0.X	±0.3	size A2	ECN LS06-0174		
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 HE508 series				dwg no C01-8637-1748		Rev. A	
			with right angle contact							
			catalog no -				CUSTOMER		sheet 3 of 9	



DIMENSION FOR SHELL SIZE E,A,B,C WITH METAL BRACKETS

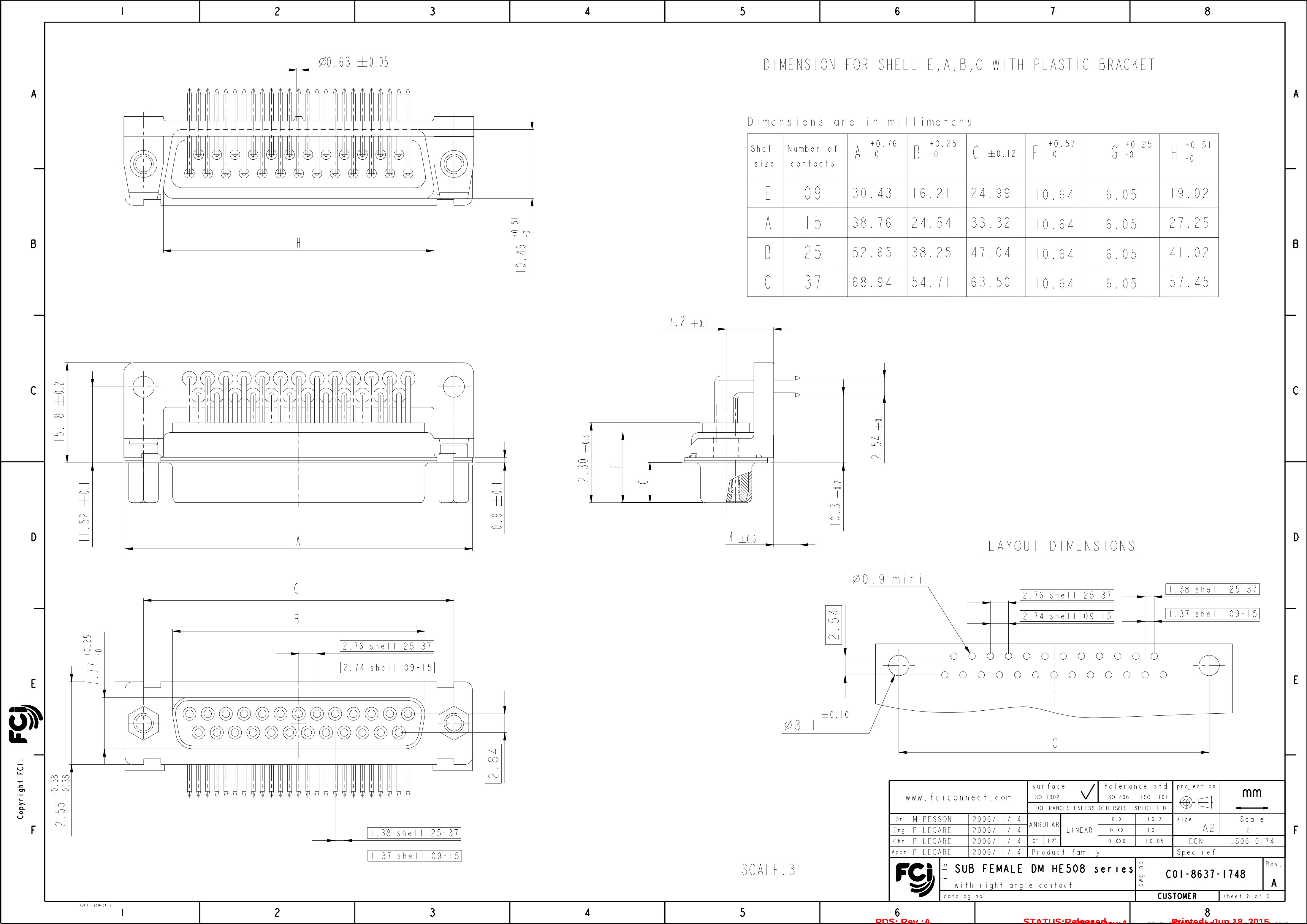
Dimensions are in millimeters

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

LAYOUT DIMENSIONS

www.fciconnect.com			surface ISO 1302	-	tolerance std ISO 406	ISO 1101	projection ISO 1101	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.XX	±0.1		
Chr	P LEGARE	2006/11/14	0° ±2°		0.XXX	±0.05	ECN	LS06-0174
Appr	P LEGARE	2006/11/14	Product family			-	Spec ref	
FCI			SUB FEMALE DM HE508 series			dwg no	C01-8637-1748	Rev.
			with right angle contact					A
			catalog no			-	CUSTOMER	sheet 5 of 9

SCALE: 3



DIMENSION FOR SHELL E,A,B,C WITH PLASTIC BRACKET

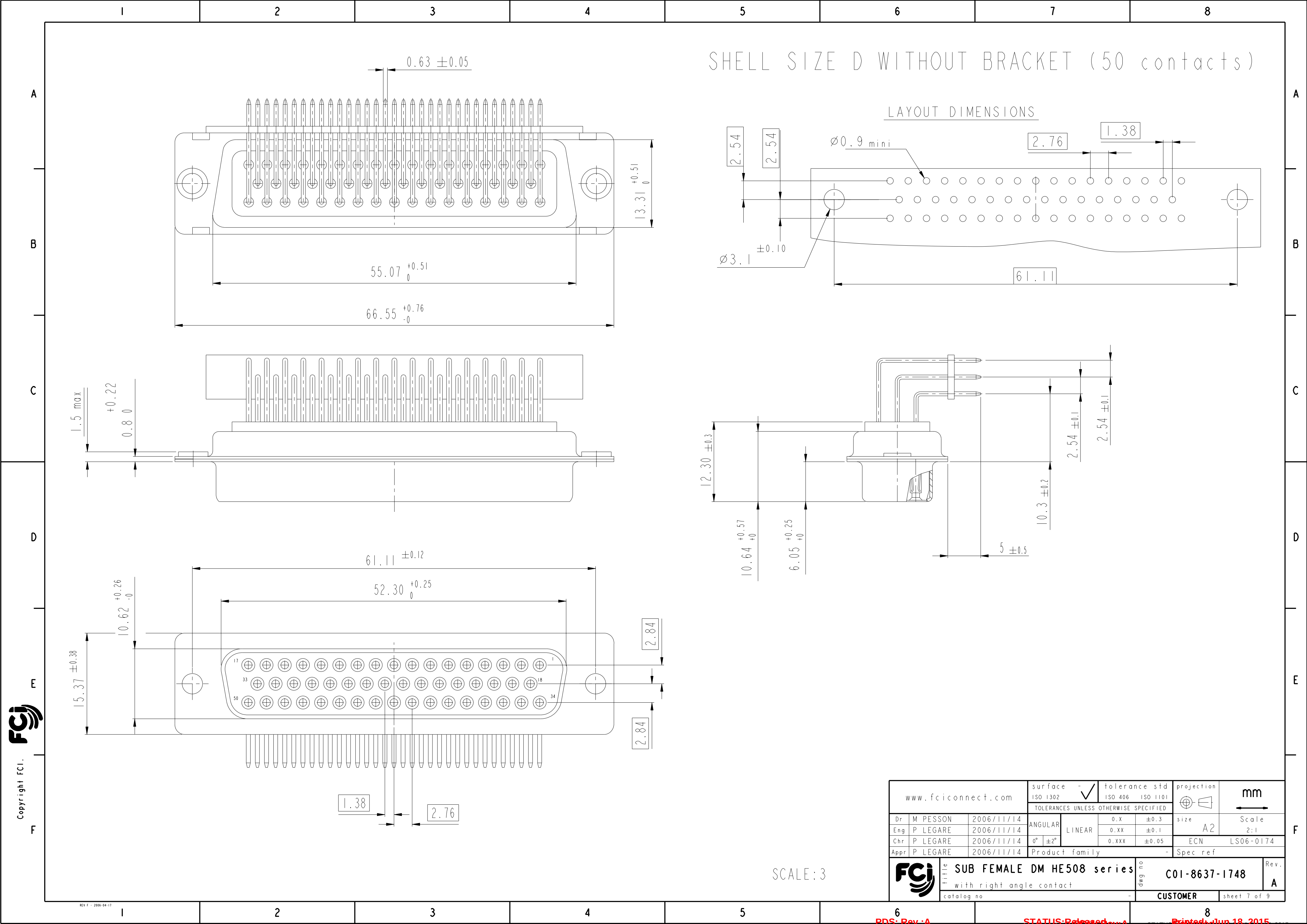
Dimensions are in millimeters

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

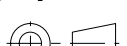
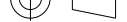
LAYOUT DIMENSIONS

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.XX ±0.1							
Chr	P LEGARE	2006/11/14			0.XXX ±0.05							
Appr	P LEGARE	2006/11/14	0° ±2°				ECN		LS06-0174			
			Product family				-	Spec ref				
			SUB FEMALE DM HE508 series				C01-8637-1748		Rev.			
			with right angle contact						A			
			catalog no				-	CUSTOMER		sheet 6 of 9		

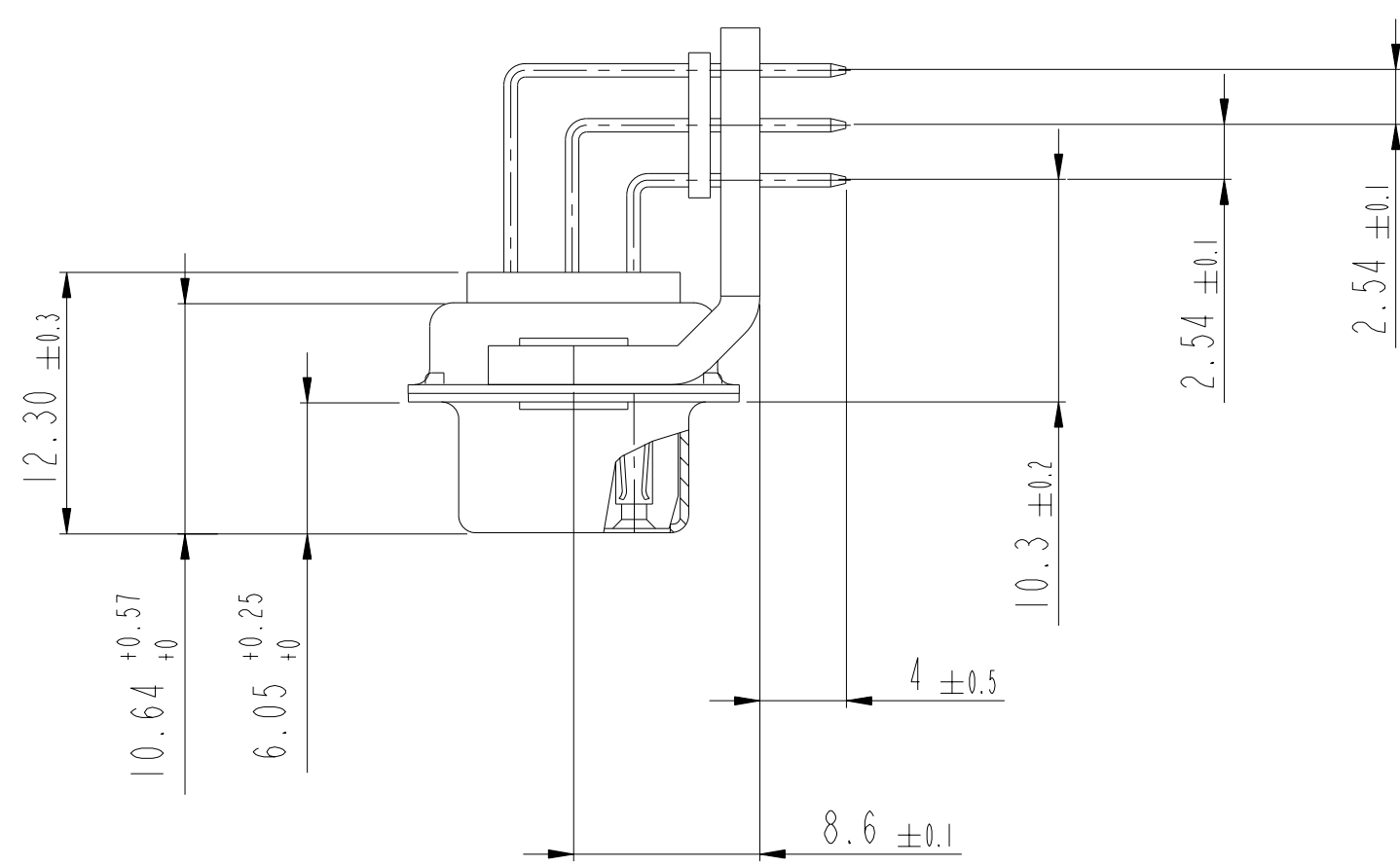
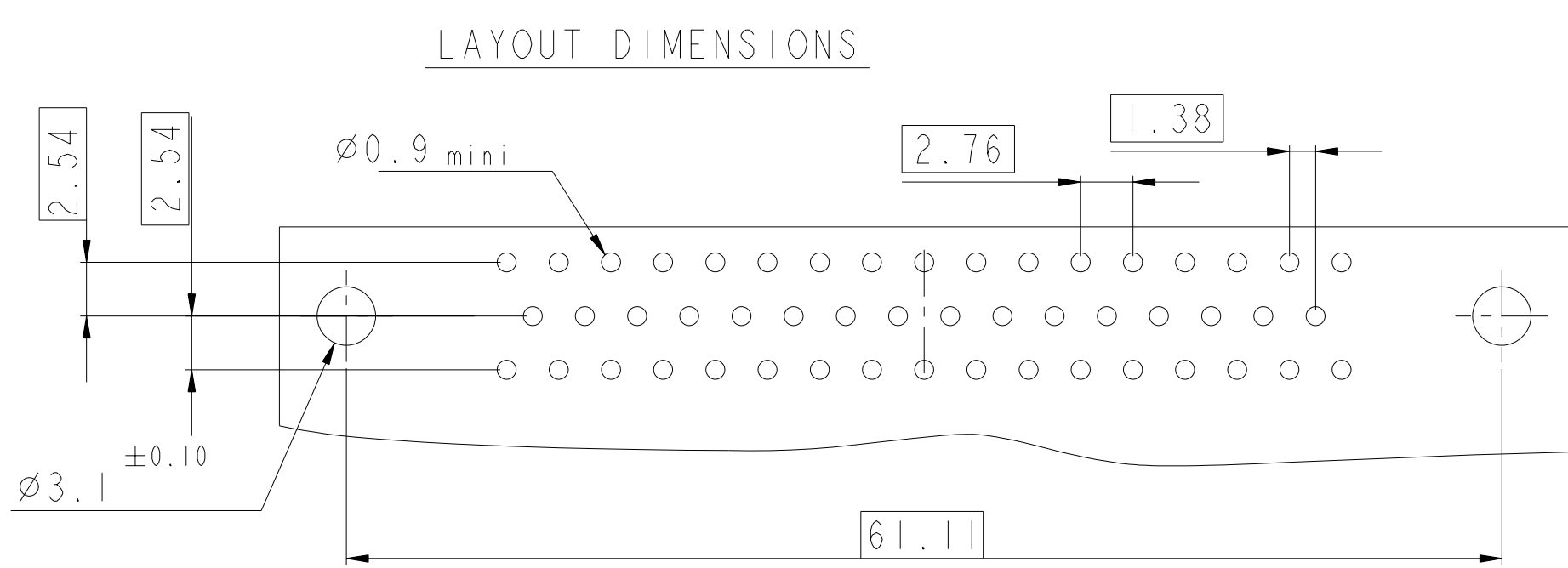
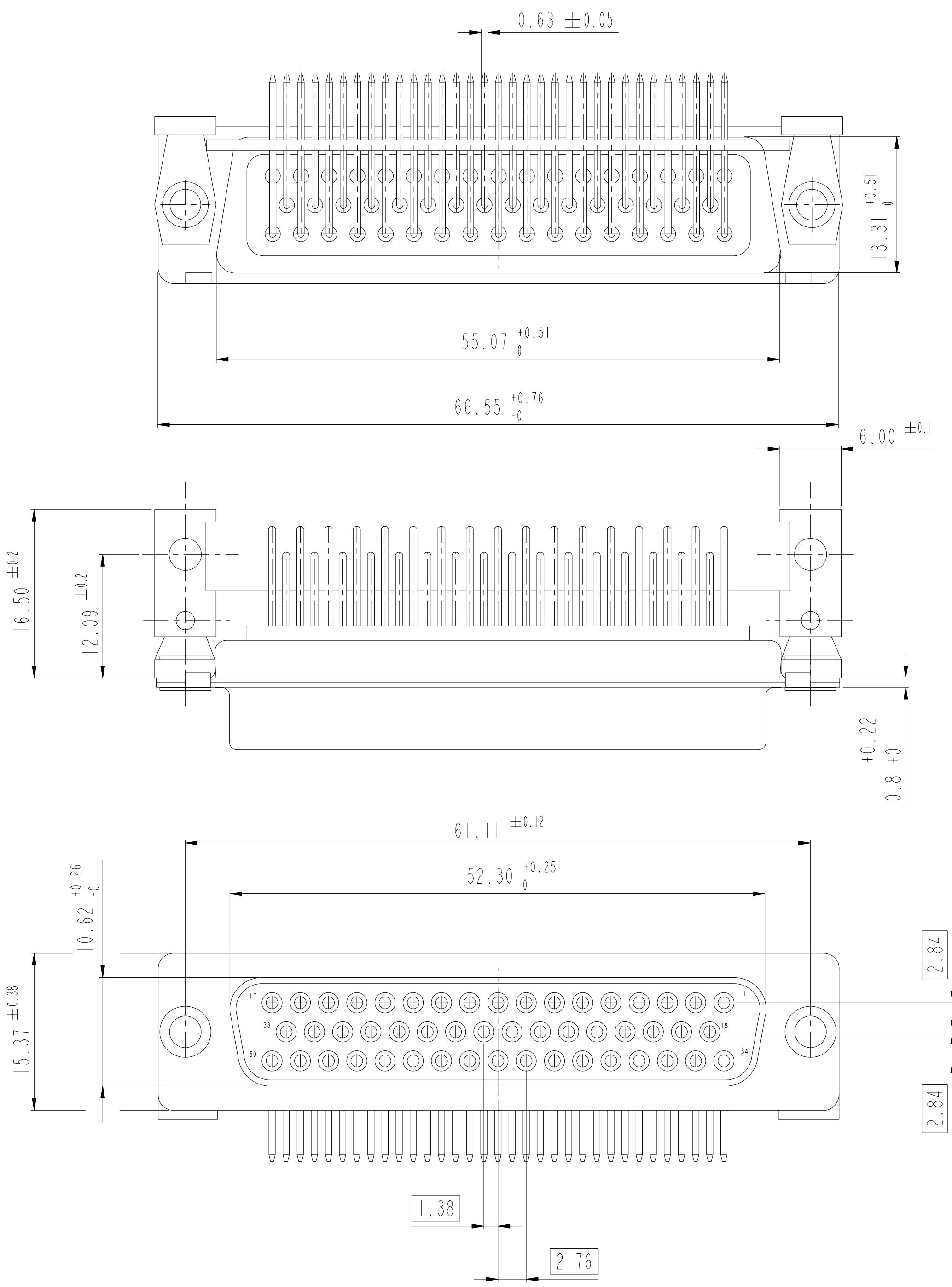


Copyright FCi.

www.fciconnect.com			surface - 		tolerance std ISO 1302 ISO 406 ISO 1101						
			TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	M PESSON	2006/11/14	ANGULAR	LINEAR	0.X	±0.3	size	A2	Scale		
Eng	P LEGARE	2006/11/14			0.XX	±0.1			2:1		
Chr	P LEGARE	2006/11/14			0° ±2°	0.XXX			±0.05	ECN LS06-0174	
Appr	P LEGARE	2006/11/14	Product family				-	Spec ref			
		title	SUB FEMALE DM HE508 series					dwg no	C01-8637-1748		Rev. A
			with right angle contact								
			catalog no								
									CUSTOMER		sheet 7 of 9



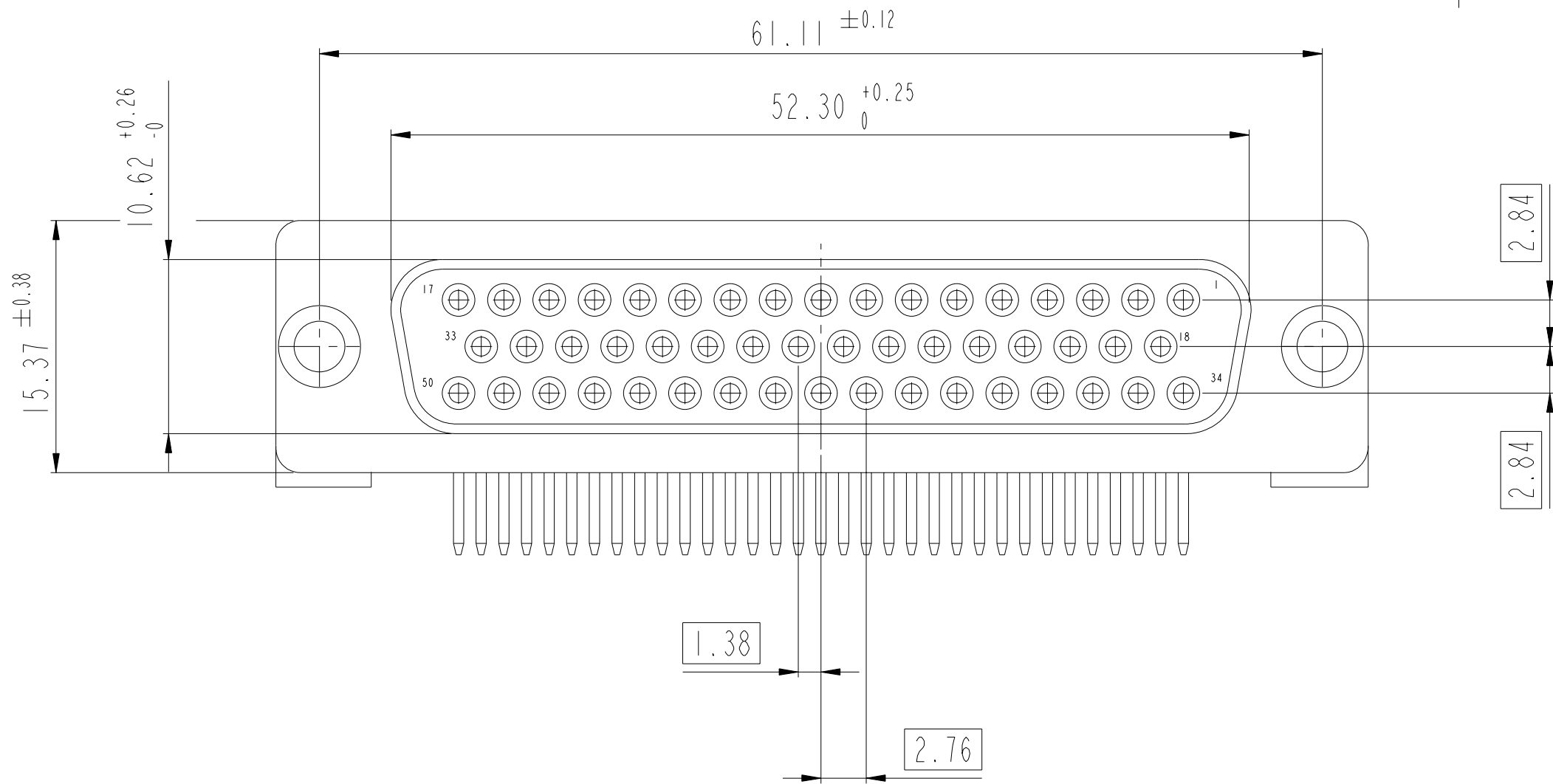
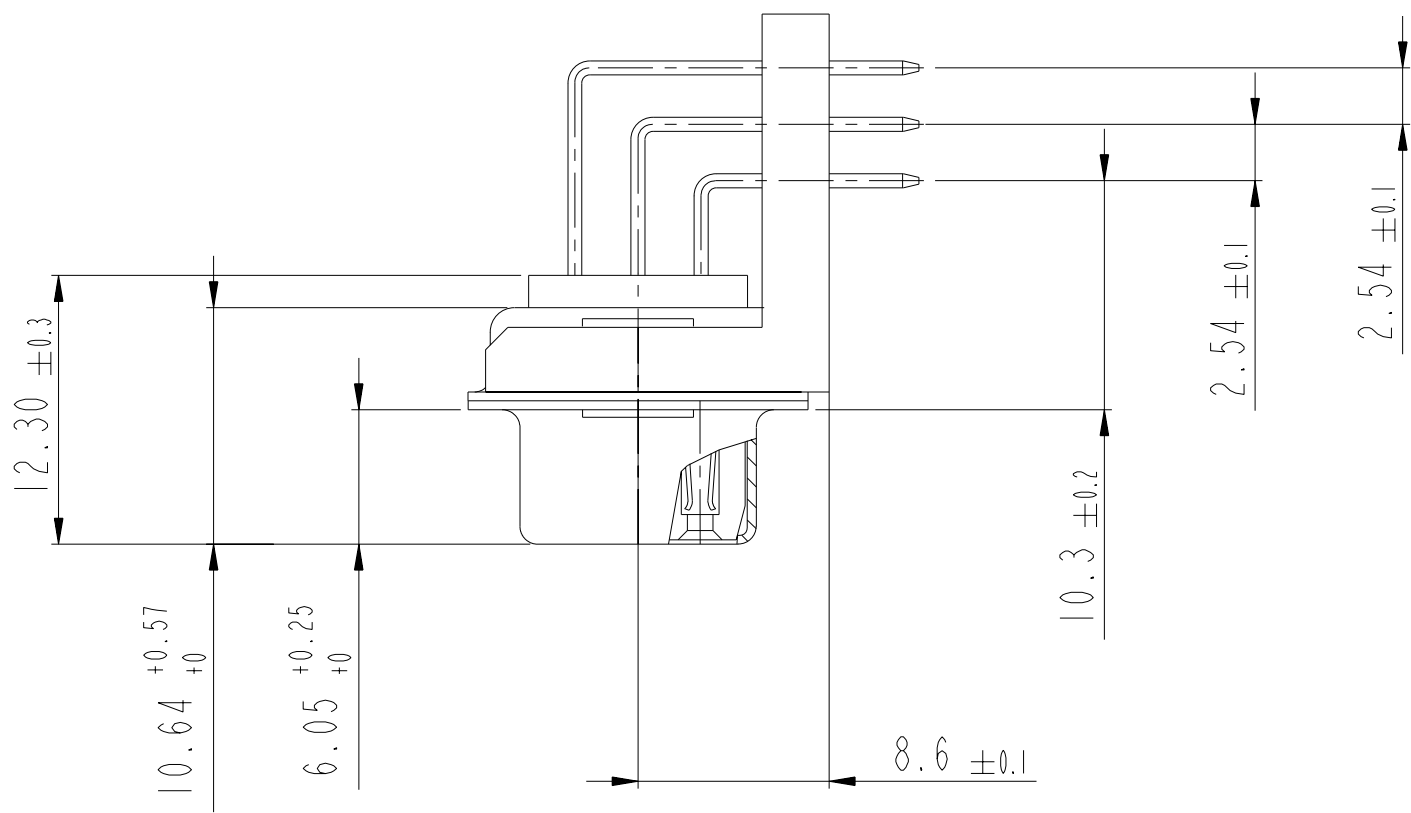
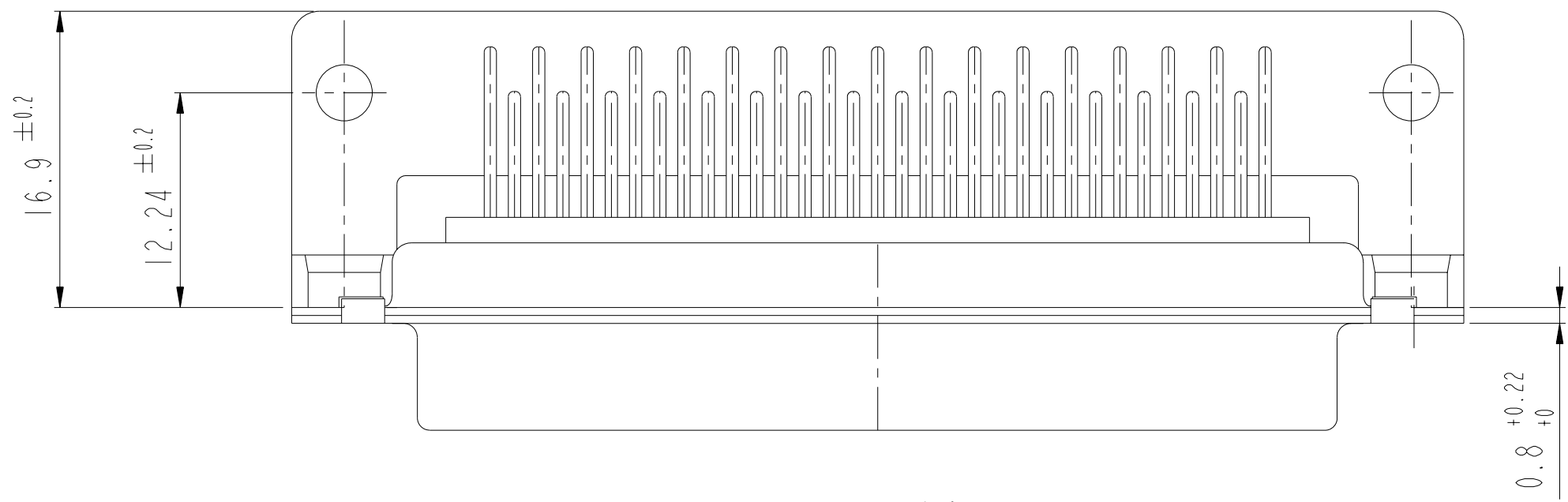
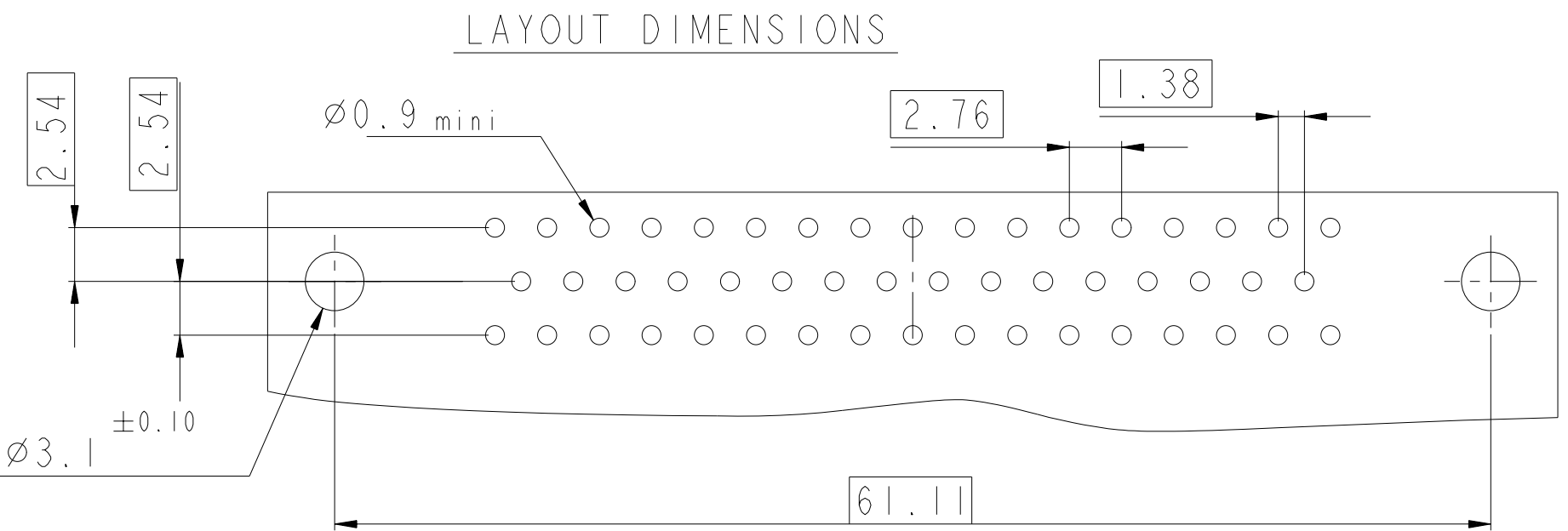
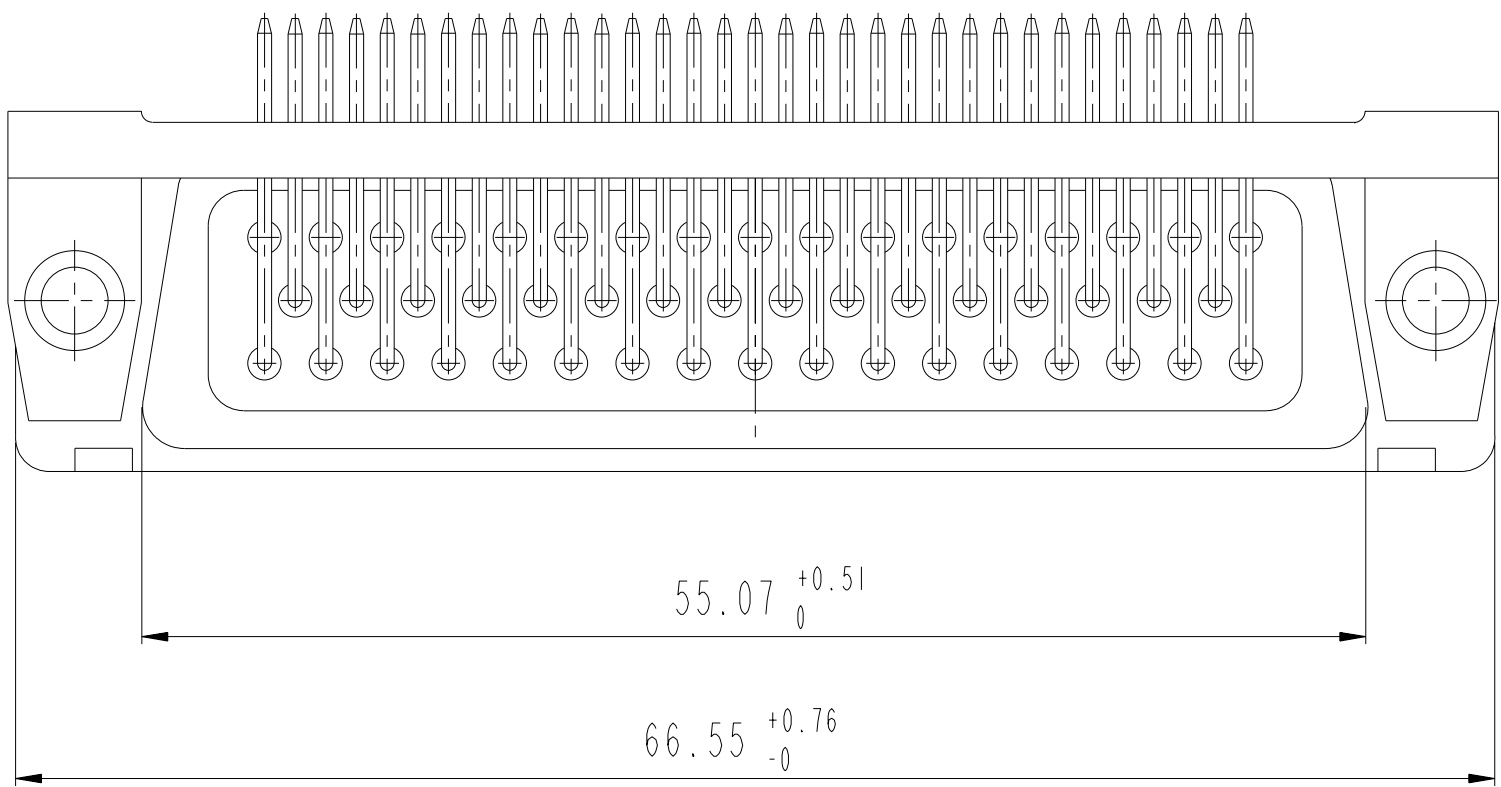
SHELL SIZE D WITH METAL BRACKET(50 contacts)



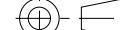
SCALE: 3

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	0.X	± 0.3	size
Eng	P LEGARE	2006/11/14		0.XX	± 0.1	A2
Chr	P LEGARE	2006/11/14	0° $\pm 2^\circ$	0.XXX	± 0.05	ECN
Appr	P LEGARE	2006/11/14	Product family			LS06-0174
			- Spec ref			
FCi			SUB FEMALE DM HE508 series			Rev.
			with right angle contact			A
catalog no			-			
			CUSTOMER			sheet 8 of 9

SHELL SIZE D WITH PLASTIC BRACKET (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	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 LS06-0174						
Product family					-		Spec ref				
			SUB FEMALE DM HE508 series				C01-8637-1748				Rev. A
			with right angle contact								
			catalog no				-		CUSTOMER		sheet 9 of 9