

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

DBML25P300N

Series

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
- S** : spacer

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

Contacts

- P** : Pin

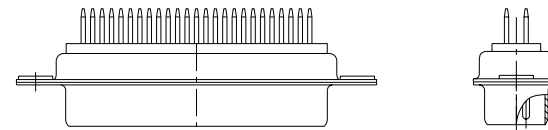
Termination type

- 3** : Straight version

Plating

- 00** : 500 matings/unmatings
- 43** : 500 matings/unmatings for harsh environment

Obligatory for HE508



25 WAY for Example

www.fciconnect.com				surface	tolerance std	projection	mm	
				ISO 1302	ISO 406 ISO 1101	mm		
				TOLERANCES UNLESS OTHERWISE SPECIFIED				
Dr	M PESSON	2006/11/14	ANGULAR	0.X	±0.3	size	Scale	
Eng	P LEGARE	2006/11/14	LINEAR	0.xx	±0.1	A2	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 MALE DM HE508 series		ang no	C01-8637-1742	
				with straight solder contact		Rev.	B	
				catalog no	CUSTOMER		sheet 1 of 4	

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

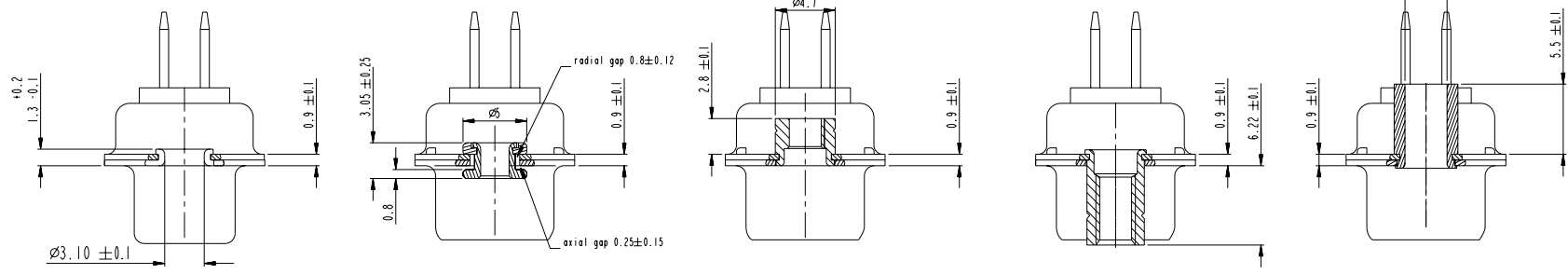
B

C

D

E

F



FRONT ACCESSORY **Blank** without **F** floating mounting **L** insert M3 **O** insert UNC 4.40 **V** female screw UNC 4.40 **S** spacer

PART NUMBER	FRONT ACCESSORY
D*MxxP300N	without
D*MFxxP300N	floating mounting
D*MLxxP300N	insert M3
D*MOxxP300N	insert UNC 4.40
D*MVxxP300N	female screw UNC 4.40
D*MSxxP300N	spacer

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

PART NUMBER	FRONT ACCESSORY
D*MxxP343N	without
D*MFxxP343N	floating mounting
D*MLxxP343N	insert M3
D*MOxxP343N	insert UNC 4.40
D*MVxxP343N	female screw UNC 4.40
D*MSxxP343N	spacer

CROSS REFERENCES HE508 and FCI

HE508 P/N	FCI P/N	FRONT ACCESSORY
HE508NxxYP4	D*MxxP300N	without
HE508FxxYP4	D*MFxxP300N	floating mounting

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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
Eng	P LEGARE	2006/11/14	LINEAR	0.XX ±0.1
Chr	P LEGARE	2006/11/14	0° ±2°	0.XXX ±0.05
Appr	P LEGARE	2006/11/14	Product family	ECN LS07-0273
				size A2
				Scale 2:1
				Spec ref
		SUB MALE DM HE508 series		Rev. B
		with straight solder contact		ang no C01-8637-1742
		catalog no		CUSTOMER sheet 2 of 4

SCALE: 4

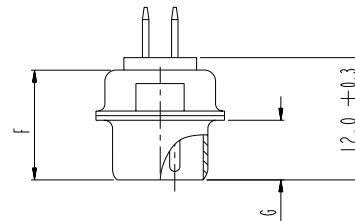
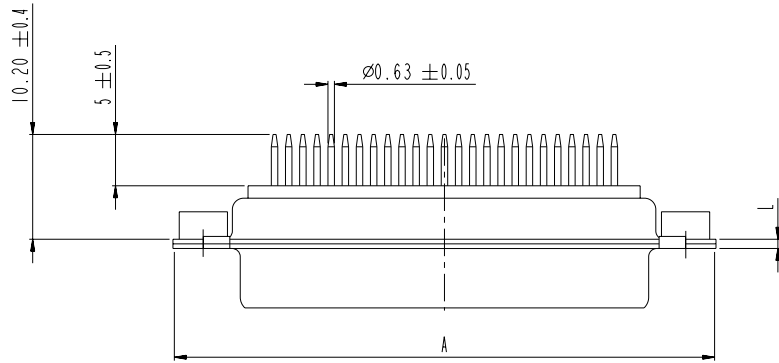
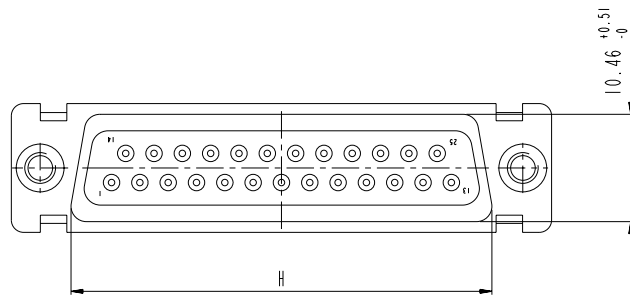
REV 7 - 2006-04-17

1 2 3 4 5 6 7 8

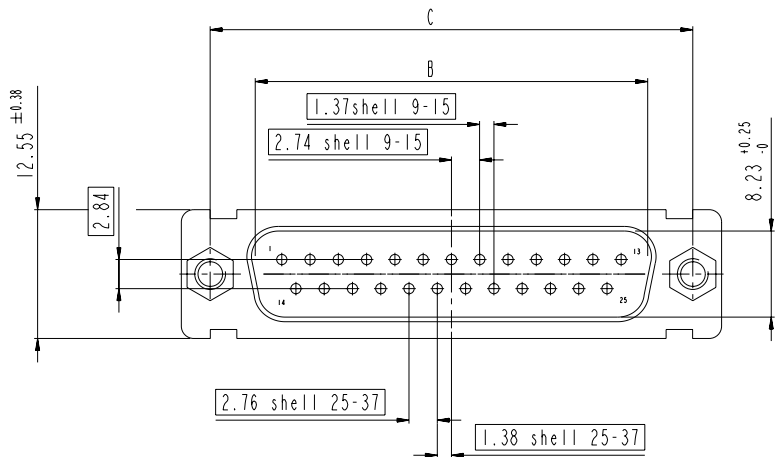
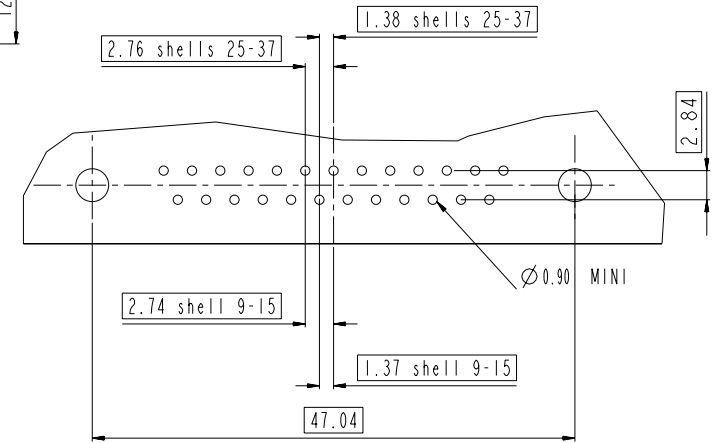
DIMENSIONS FOR SHELL E,A,B,C

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



LAYOUT AND CONNECTOR DIMENSIONS

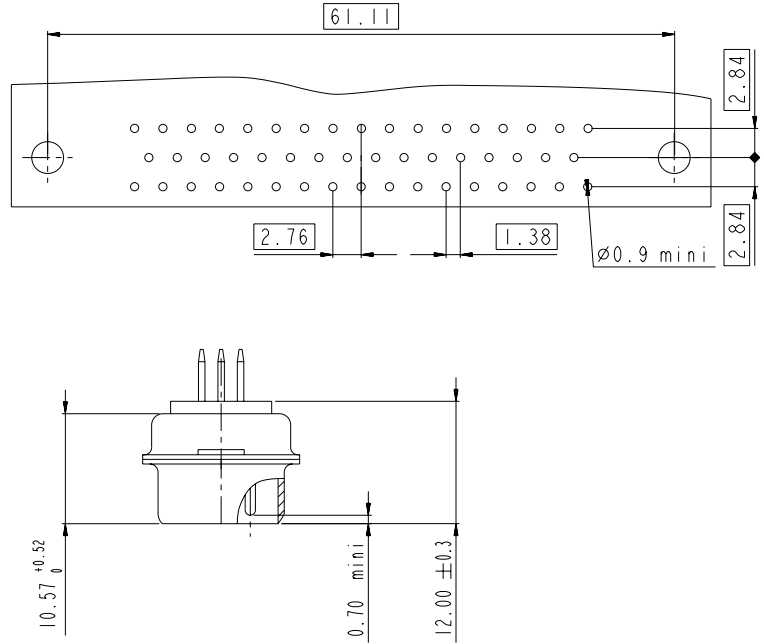
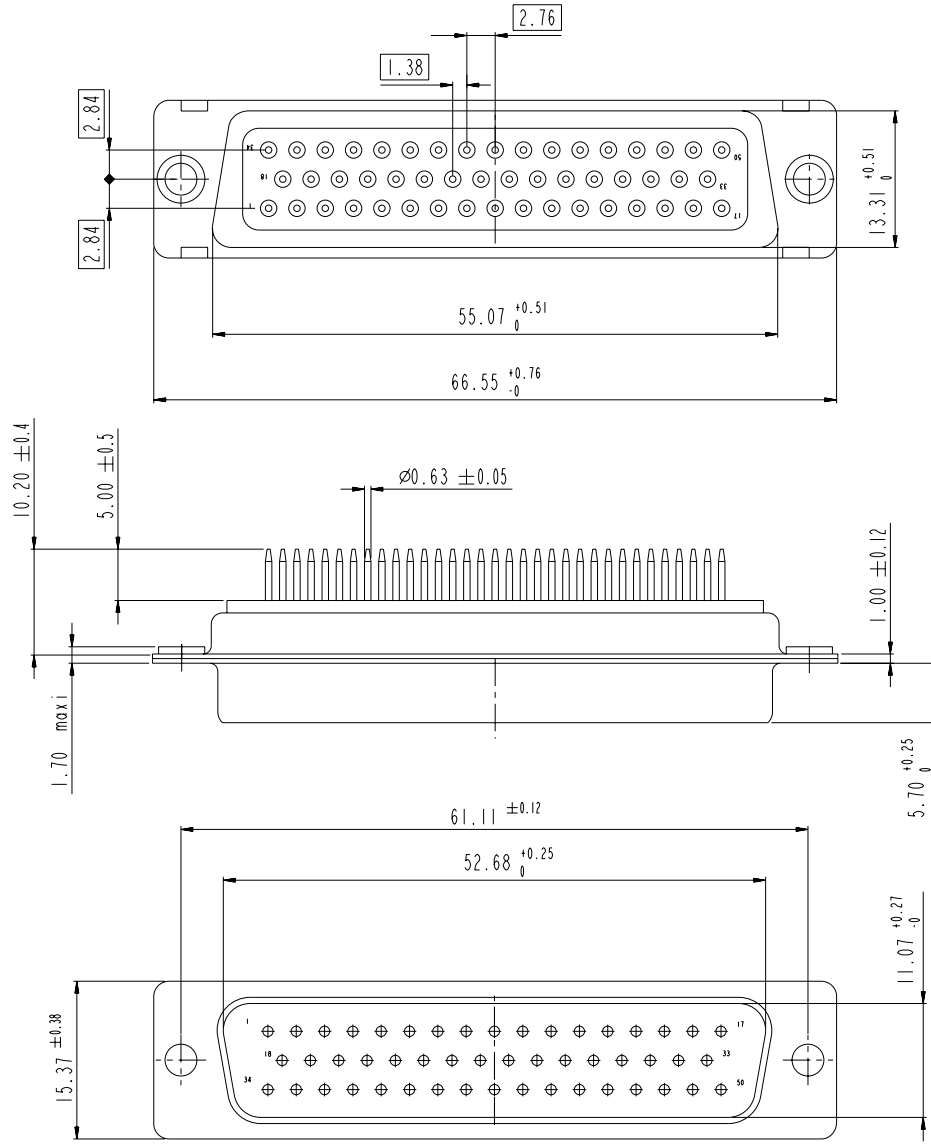


www.fciconnect.com		surface ISO 1302	tolerance std ISO 406 ISO 1101	projection mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED		
Dr M PESSON	2006/11/14	ANGULAR	0.X ±0.3	size A2 Scale 2:1
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Chr P LEGARE	2006/11/14	0° ±2°	0.XXX ±0.05	Spec ref
Appr P LEGARE	2006/11/14	Product family		
SUB MALE DM HE508 series with straight solder contact catalog no			ang no C01-8637-1742 Rev. B	CUSTOMER sheet 3 of 4

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DIMENSIONS FOR SHELL SIZE D (50 CONTACTS)

LAYOUT AND CONNECTOR DIMENSIONS



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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 A2 Scale 2:1
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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 HE508 series		ang no C01-8637-1742	Rev. B
	with straight solder contact		CUSTOMER	sheet 4 of 4
	catalog no			