

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

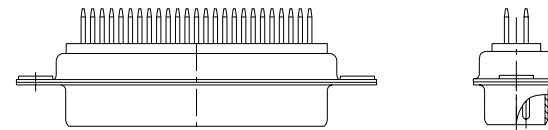
Termination type

- 3** : Straight version

Plating

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

Obligatory for HE508



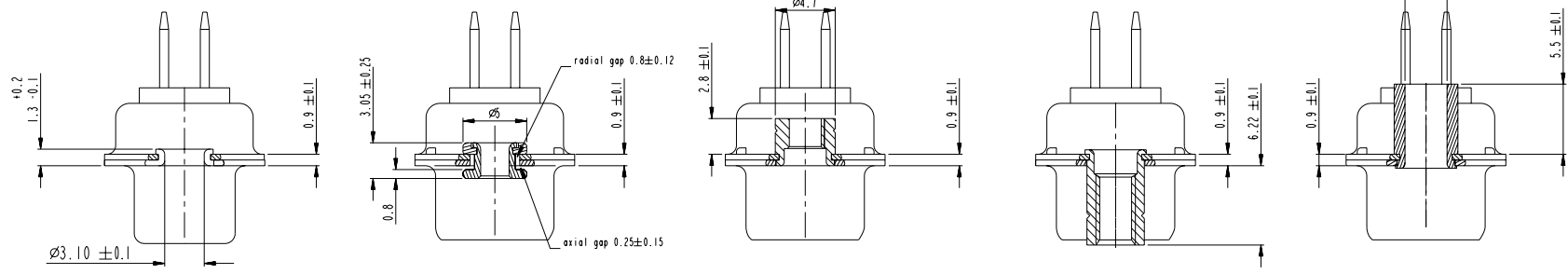
25 WAY for Example

www.fciconnect.com				surface	tolerance std	projection	mm	
				ISO 1302	ISO 406 ISO 1101	mm		
				TOLERANCES UNLESS OTHERWISE SPECIFIED				
rev	ecn no	dr	date	Dr	M PESSON	2006/11/14	ANGULAR	LINEAR
A	LS06-0174	MPE	2006/11/14	Eng	P LEGARE	2006/11/14	0.X	±0.3
B	LS07-0273	MPE	2007/10/30	Chr	P LEGARE	2006/11/14	0.xx	±0.1
-	-	-	-	Appr	P LEGARE	2006/11/14	0.xxx	±0.05
				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	- 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

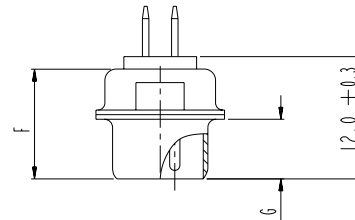
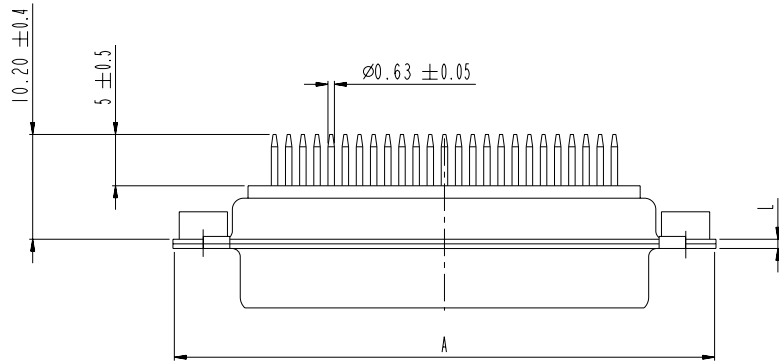
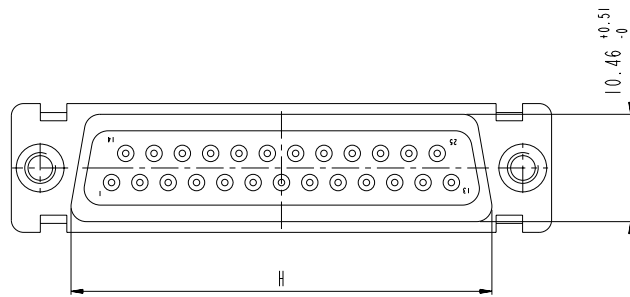
REV 7 - 2006-04-17

1 2 3 4 5 6 7 8

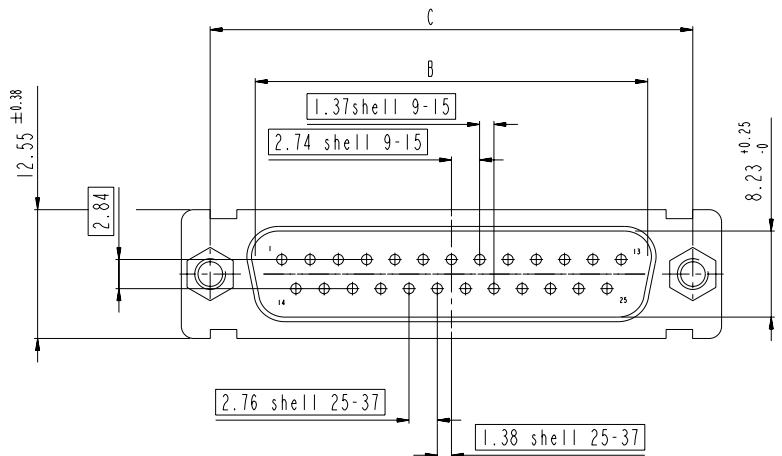
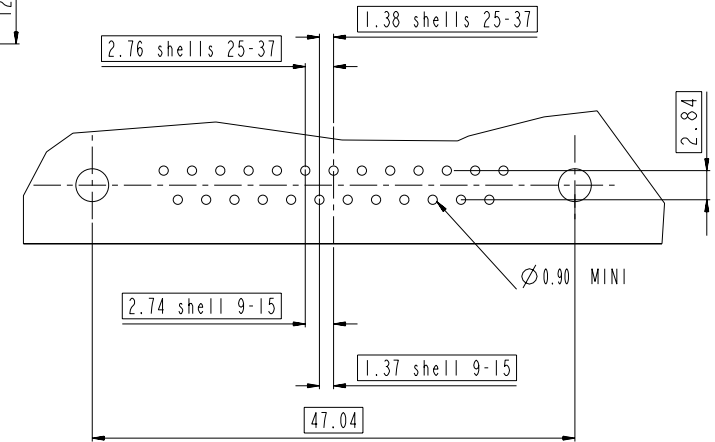
DIMENSIONS FOR SHELL E,A,B,C

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

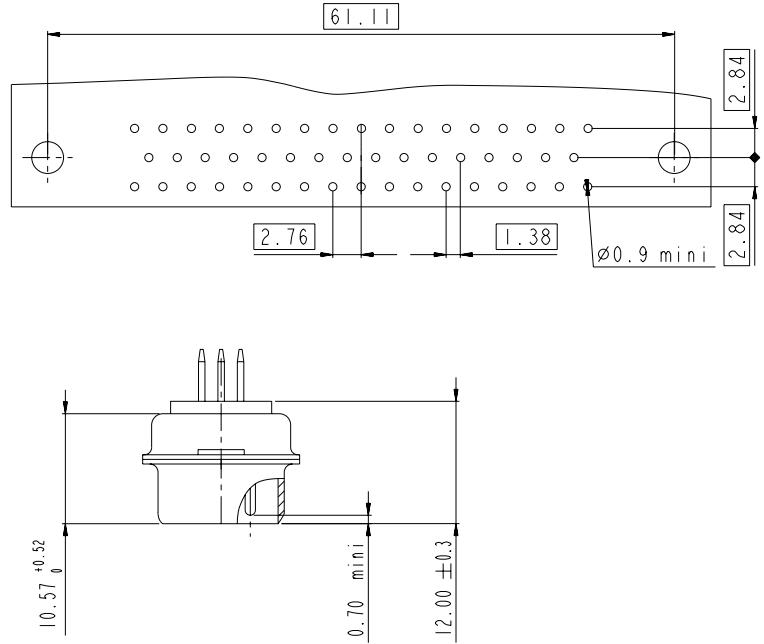
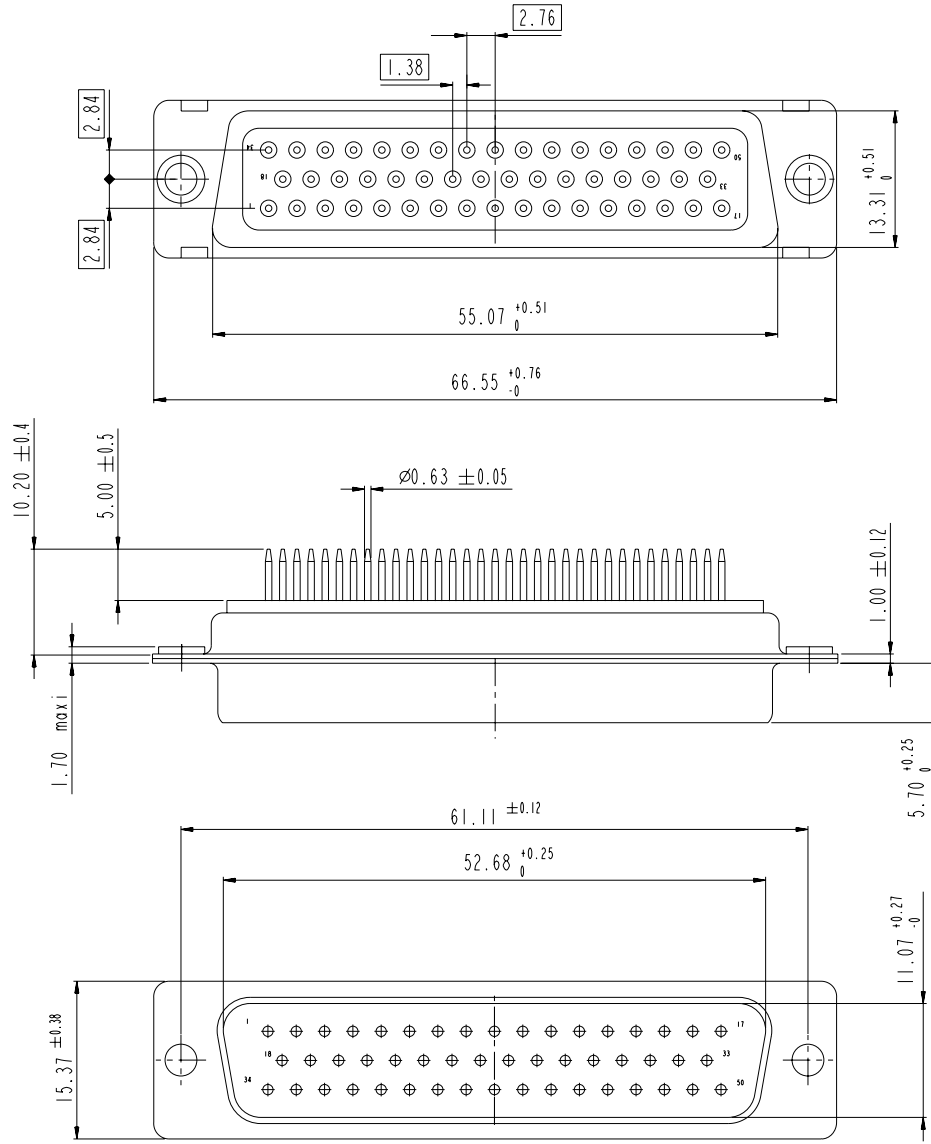


www.fciconnect.com		surface ISO 1302	tolerance std ISO 406 ISO 1101	projection mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED		
Dr M PESSON	2006/11/14	ANGULAR	0.X ±0.3	size A2 Scale 2:1
Eng P LEGARE	2006/11/14	LINEAR	0.XX ±0.1	ECN LS07-0273
Chr P LEGARE	2006/11/14	0° ±2°	0.XXX ±0.05	Spec ref
Appr P LEGARE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