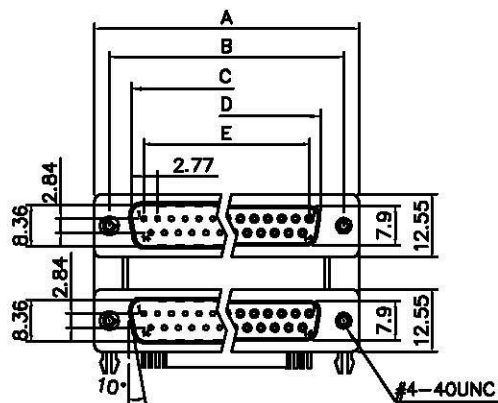


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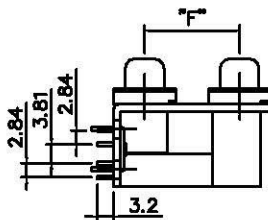
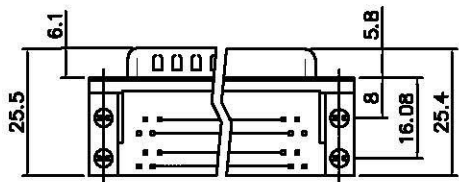
Dimension Of "F"	
< 1 >	15.88
< 2 >	19.05
< 3 >	22.86

Product Specification

Material  
 Insulator : Glass-Filled Thermoplastic PBT, UL94V-0  
 Contact : Brass  
 Shell : Steel, 100u" Tin Over 50u" min Copper  
 Clinch Nut : Brass, nickel plated.  
 Boardlock : Brass, tin plated  
 Screwlock : Brass, nickel plated.

Electrical

Contact Resistance : 20 milliohms  
 Max at 1 AMP DC.  
 Insulation Resistance : 1000  
 megohms at 500 VDC  
 Dielectric Withstanding Voltage :  
 1000 VAC/rms 60Hz for 1 minute  
 Current Rating : 3 AMP  
 Voltage Rating : 250 VAC/rms 60Hz



Dimensions

Positions	A	B	C	D	E
9	30.81	24.99	16.92	16.33	11.08
15	39.20	33.30	25.25	24.66	19.39
25	53.05	47.04	38.96	38.38	33.24
37	69.40	63.50	55.42	54.84	49.86

DO NOT SCALE DRAWING

DIMENSIONS: <input type="checkbox"/> MM (INCH) <input type="checkbox"/> INCH (mm) <input checked="" type="checkbox"/> MM ONLY	CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE DRAWN BY AND DATE JUSTIN XING 10-21-05	www.allconnectors.de Tel: 0349 211 7095931 70794 Filsumkreut - Germany info@allconnectors.de Fax: 0349 211 7095931 kuesten@str.24	
	UNLESS OTHERWISE SPECIFIED, GENERAL TOLERANCE: DECIMALS ANGLES .X ±0.38 [0.015] X° ±3° .X ±0.25 [0.010] .X° ±1.0° .XX ±0.13 [0.005]		CHECKED BY AND DATE JUSTIN XING 10-21-05 APPROVED BY AND DATE KING CHIU 10-21-05
MATERIAL FINISH	SCALE: 1 : 1 SIZE: A3	DRAWING NO. 109-XXXXXXXXXX FILE NO.:	REV A SHEET 1 OF 4

TITLE 109 SERIES D-SUB DUAL PORT CONNECTOR	
DRAWING NO. 109-XXXXXXXXXX	REV A
FILE NO.:	SHEET 1 OF 4

1 2 3 4 5 6 7 8

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**RoHS COMPLIANT**

Ordering Information

109 -  $\frac{X}{a}$   $\frac{XX}{b}$   $\frac{XX}{c}$   $\frac{X}{d}$   $\frac{X}{e}$   $\frac{X}{f}$   $\frac{X}{g}$   $\frac{X}{h}$

**a. Dimension:**

- 1: 15.88mm
- 2: 19.05mm
- 3: 22.86mm

**b. Contact Type(Top)**

- 01: 09P
- 02: 09S
- 03: 15P
- 04: 15S
- 05: 25P
- 06: 25S
- 07: 37P
- 08: 37S
- 09: HD15P
- 10: HD15S

**c. Contact Type (Bottom)**

- 00: None
- 01: 09P
- 02: 09S
- 03: 15P
- 04: 15S
- 05: 25P
- 06: 25S
- 07: 37P
- 08: 37S
- 09: HD15P
- 10: HD15S
- 11: 09P x09P
- 12: 09P x09S
- 13: 09P xHD15S
- 14: Earphone Jack x3
- 15: HD 26S

**d. Contact Plating**

- 0: Gold flash selective gold
- 1: 15u" selective gold on contact
- 2: 30u" selective gold on contact
- 3: Full gold flash

**e. Shell Plating :**

- 0. Cr<sup>+3</sup> yellow chrome
- 1. Nickel(standard)
- 2. Tin
- 3. Cr<sup>+6</sup> yellow chrome
- 4. Gold flash
- 5. Cr<sup>+6</sup> yellow chrome, dimple
- 6. Cr<sup>+3</sup> yellow chrome, dimple
- 7. Nickel(With Y-S Logo)
- 8. Tin(With Y-S Logo)

**f. Insulator Color**

- 1: Blue
- 2: Black
- 3: White
- 4: Gray
- 5: Green
- 6: Black(high temperature)
- 7: PC99 red
- 8: PC99 yellow



**g. Board Mounting Options**

- 1: Grounding Strap
- 2: Grounding Hook Boardlock single
- 3: Grounding Hook Boardlock dual
- 4: Grounding Hook Boardlock(high)

**h. Flange Mounting Option**

- 0:  $\varnothing$ 3.05mm clear hole
- 1: #4-40 threaded hole
- 2: #4-40 threaded hole with #4-40 unc(4.8\*11.8mm)screwlock installed
- 3: #4-40 threaded hole with #4-40 unc(4.8\*11.8mm)screwlock buld-packed
- 4: M3 threaded hole
- 5: #4-40 threaded hole with M3(4.8\*11.8mm)screwlock installed
- 6: M2.6 threaded hole
- 7: #4-40 threaded hole with M2.6 unc(4.8\*11.8mm)screwlock installed
- 8: #4-40 threaded hole with #4-40 unc(6.0\*12.0mm)screwlock installed
- 9: #4-40 threaded hole with #4-40 unc(6.0\*12.0mm)screwlock buld-packed
- A: #4-40 threaded hole with #4-40 unc(5.0\*10.5mm)round with "-" font screwlock installed

DO NOT SCALE DRAWING

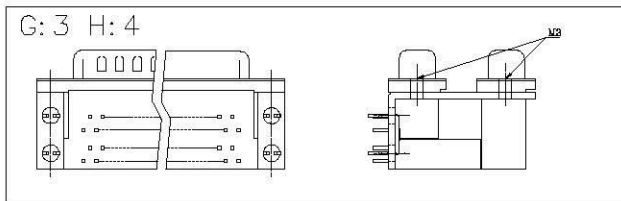
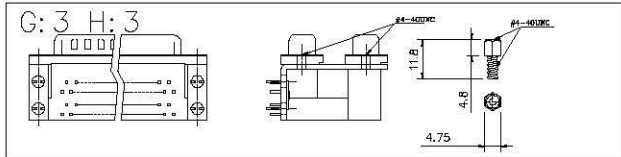
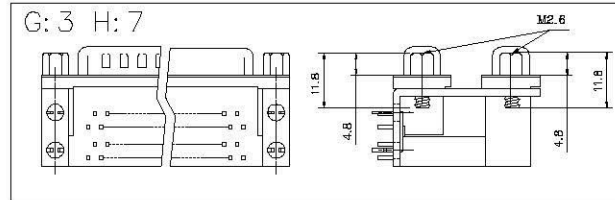
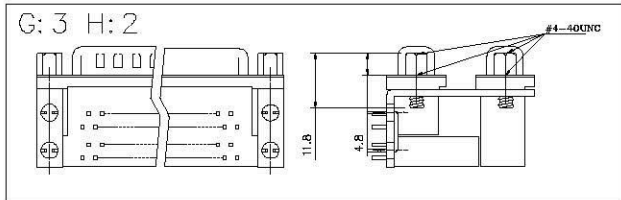
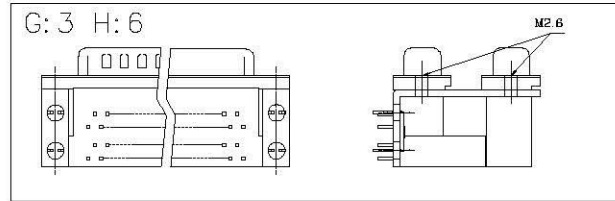
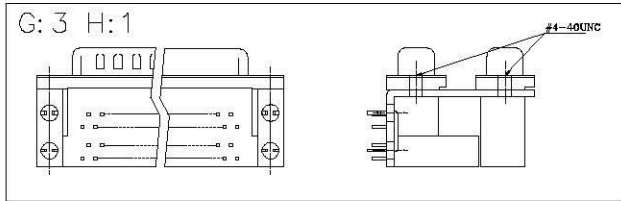
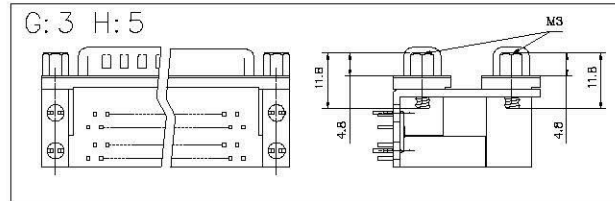
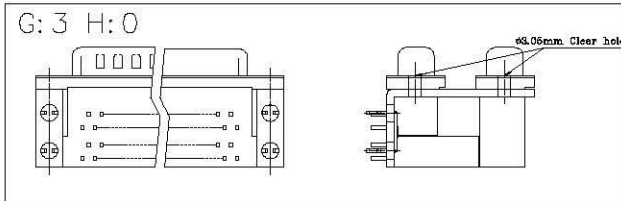
DIMENSIONS: <input type="checkbox"/> MM [INCH] <input type="checkbox"/> INCH [MM] <input checked="" type="checkbox"/> MM ONLY		CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE DRAWN BY AND DATE JUSTIN XING 07-20-06		 <small>www.allconnectors.de Tel: +030 711 209503 20704 Flörsdorf - Germany</small> <small>info@allconnectors.de Tel: +030 711 209504 kette@meist-25</small>	
UNLESS OTHERWISE SPECIFIED, GENERAL TOLERANCE: DECIMALS      ANGLES X: $\pm 0.38$ [0.015]      X°: $\pm 3^\circ$ .X: $\pm 0.25$ [0.010]      .X°: $\pm 1.0^\circ$ .XX: $\pm 0.13$ [0.005]		CHECKED BY AND DATE JUSTIN XING 07-20-06 APPROVED BY AND DATE KING CHIU 07-20-06 THIRD ANGLE PROJECTION		TITLE 109 SERIES D-SUB DUAL PORT	
MATERIAL FINISH		 SCALE: 1:1      SIZE: A3		DRAWING NO. 109-XXXXXXXXX      REV C	
FILE NO.				SHEET 2 OF 4	

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 DECIMALS ANGLES  
 .X ±0.38 [0.015] X° ±3°  
 .X ±0.25 [0.010] .X° ±1.0°  
 .XX ±0.13 [0.005]

MATERIAL  
 FINISH

CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE  
 DRAWN BY AND DATE  
 JUSTIN XING 07-20-06

CHECKED BY AND DATE  
 JUSTIN XING 07-20-06  
 APPROVED BY AND DATE  
 KING CHIU 07-20-06  
 THIRD ANGLE PROJECTION

SCALE: 1 : 1  
 SIZE: A3

**All Connectors**  
 www.allconnectors.com  
 Tel: 0049 711 400505  
 70754 Hildesheim - Germany  
 info@allconnectors.com  
 Fax: 0049 711 400501  
 kate@mscrl.de

TITLE  
 109 SERIES  
 D-SUB DUAL PORT CONNECTOR

DRAWING NO. 109-XXXXXXXXX  
 FILE NO. SHEET 3 OF 4

REV  
 A

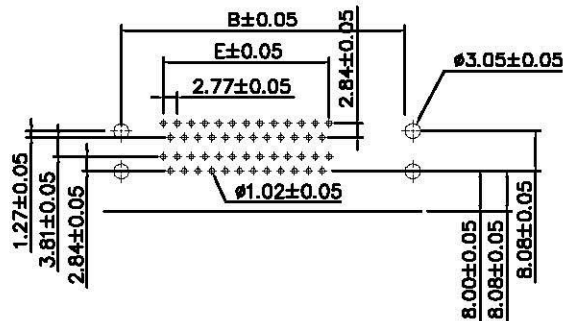
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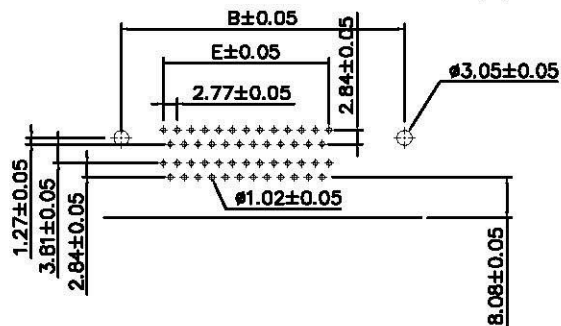
REVISIONS

REV	ECN NO.	DESCRIPTION	APPROVED BY	DATE
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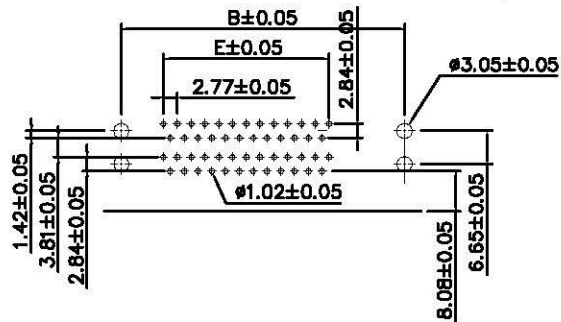
RECOMMENDED PCB LAYOUT  
(FOR BOARD MOUNTING: CLEAR HOLE AND QUAD BOARDLOCK)



RECOMMENDED PCB LAYOUT  
(FOR BOARD MOUNTING: DUAL BOARDLOCK)



RECOMMENDED PCB LAYOUT  
(FOR BOARD MOUNTING: QUAD BOARDLOCK(B TYPE))



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UNLESS OTHERWISE SPECIFIED, GENERAL TOLERANCE: DECIMALS ANGLES X: ±0.38 [0.015] X°: ±3° .X: ±0.25 [0.010] .X°: ±1.0° .XX: ±0.13 [0.005]		DRAWN BY AND DATE JUSTIN XING 07-20-06	
MATERIAL		CHECKED BY AND DATE JUSTIN XING 07-20-06	
FINISH		APPROVED BY AND DATE KING CHIU 07-20-06	
		THIRD ANGLE PROJECTION	
		SCALE: 1:1	SIZE: A3

**Allconnectors**

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Kettnerstr. 25

TITLE  
109 SERIES  
D-SUB DUAL PORT CONNECTOR

DRAWING NO. 109-XXXXXXXXXX	REV A
FILE NO.	SHEET 4 OF 4