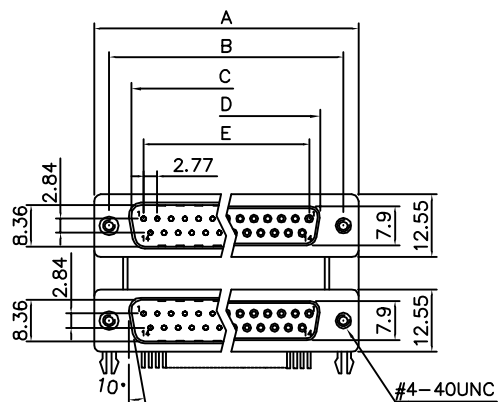


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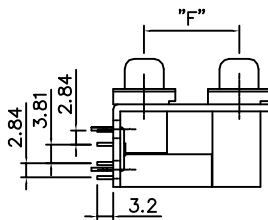
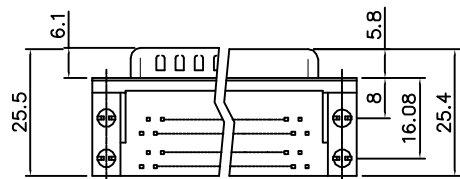
Dimension Of "F"	
< 1 >	15.88
< 2 >	19.05
< 3 >	22.86

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
UNLESS OTHERWISE SPECIFIED, GENERAL TOLERANCE: DECIMALS ANGLES .X ±0.38 [0.015] X° ±3° .XX ±0.25 [0.010] .X° ±1.0° .XXX ±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

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 No. 101, Sec. 1, Long-An Street,
 Lu-Chu, Taoyuan, Taiwan, R.O.C.
 TEL: +886-3-3609819 FAX: +886-3-3609817

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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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⁺³ yellow chrome
- 1. Nickel(standard)
- 2. Tin
- 3. Cr⁺⁶ yellow chrome
- 4. Gold flash
- 5. Cr⁺⁶ yellow chrome, dimple
- 6. Cr⁺³ 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

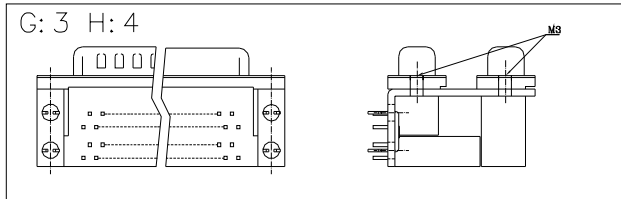
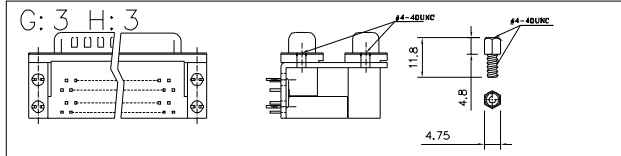
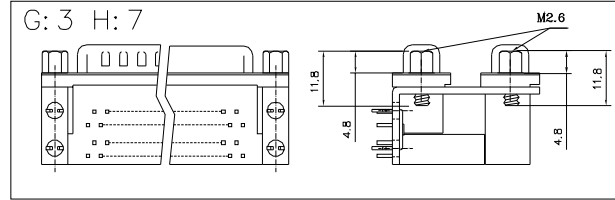
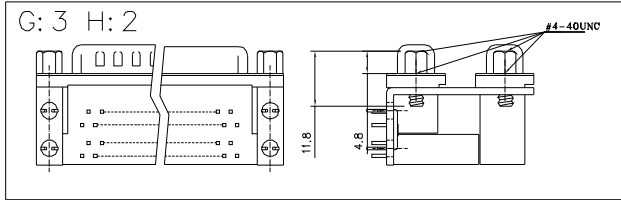
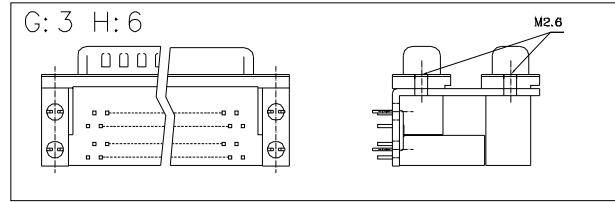
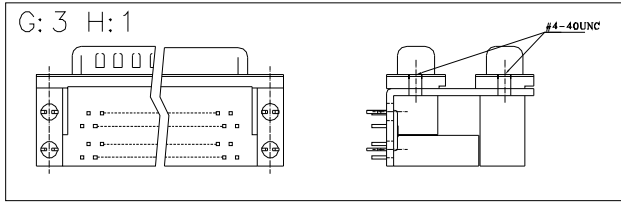
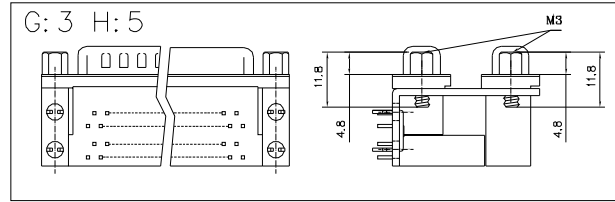
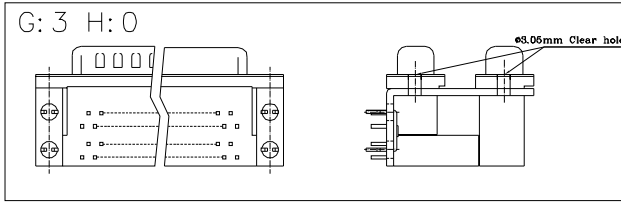
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MATERIAL				TITLE 109 SERIES D-SUB DUAL PORT	
FINISH		SCALE: 1 : 1	SIZE: A3		DRAWING NO. 109-XXXXXXXXX
FILE NO.:				SHEET 2 OF 4	

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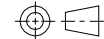
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MATERIAL
 FINISH

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 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



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TITLE
 109 SERIES
 D-SUB DUAL PORT CONNECTOR

DRAWING NO. 109-XXXXXXXXX REV A

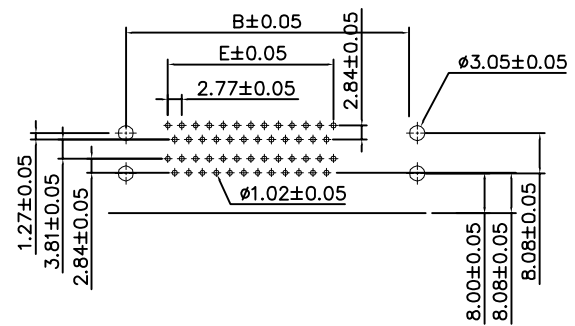
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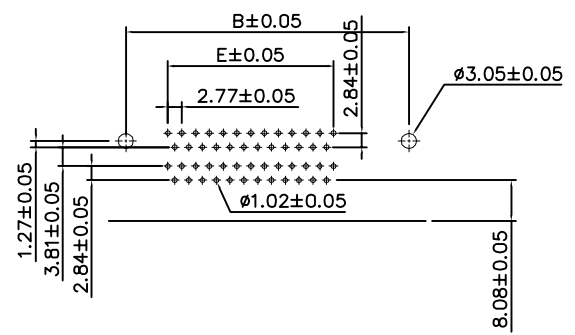
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REVISIONS				
REV	ECN NO.	DESCRIPTION	APPROVED BY	DATE
A				

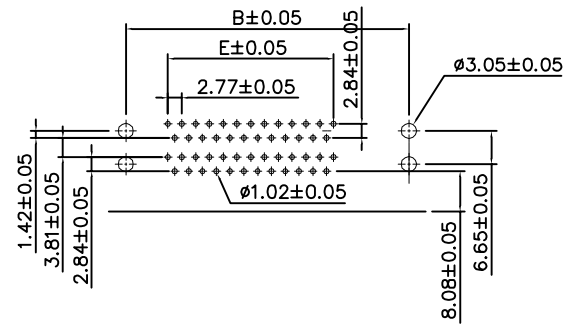
RECOMMENDED PCB LAYOUT
(FOR BOARD MOUNTING: CLEAR HOLE AND QUAD BOARDLOCK)



RECOMMENDED PCB LAYOUT
(FOR BOARD MOUNTING: DUAL BOARDLOCK)



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



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MATERIAL: _____			
FINISH: _____		SCALE: 1 : 1	SIZE: A3



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