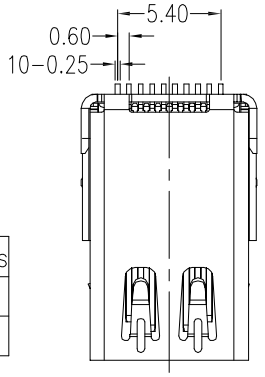
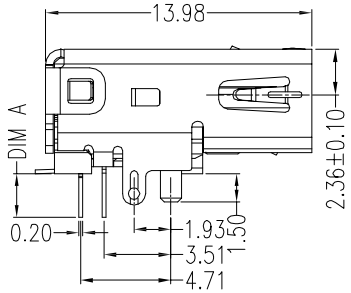
REV.	ECN.NO.	DATE
A	RELEASED	06/13-'10
C	Modifying material	09/24-'13
D	Modifying P.C.B Thickness	10/14-'14

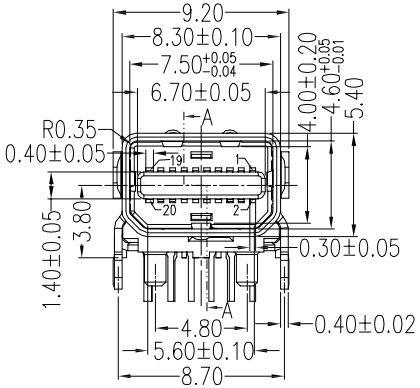
Unit:mm

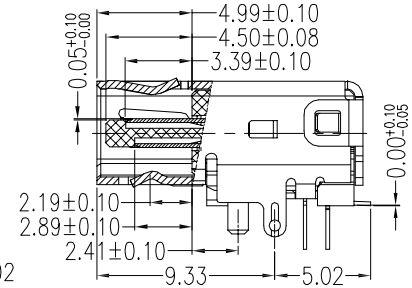
Part NO.	Dim A	P.C.B Thickness
20FBL1PH4	3.10	2.50
20FAL1PH4	2.15~2.30	1.60



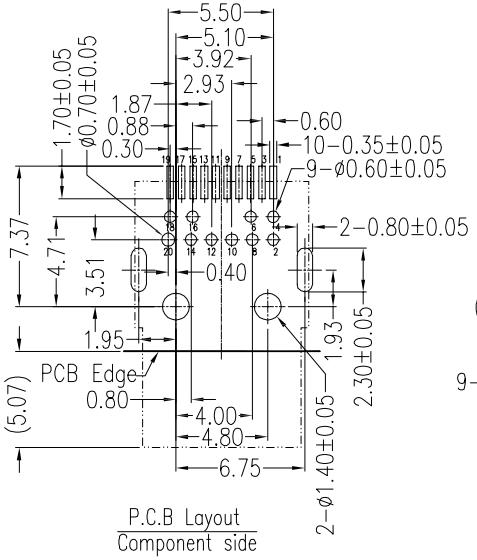
Top Row			Bottom Row		
Pin NO.	Signal Type	Pin Name	Pin NO.	Signal Type	Pin Name
1	GND	GND	2	In	HotPlug Detect
3	Out	ML_Lane 0(p)	4	CONFIG	CONFIG1
5	Out	ML_Lane 0(n)	6	CONFIG	CONFIG2
7	GND	GND	8	GND	GND
9	Out	ML_Lane 1(p)	10	Out	ML_Lane 3(p)
11	Out	ML_Lane 1(n)	12	Out	ML_Lane 3(n)
13	GND	GND	14	GND	GND
15	Out	ML_Lane 2(p)	16	I/O	AUX_CH(p)
17	Out	ML_Lane 2(n)	18	I/O	AUX_CH(n)
19	GND	GND	20	PWR Out	DP_PWR



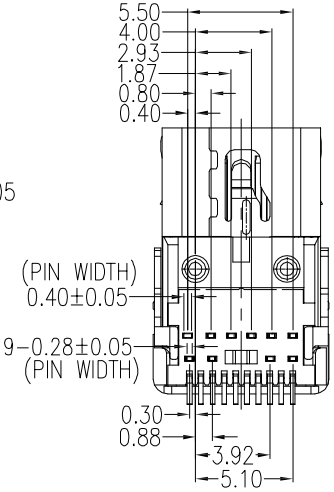


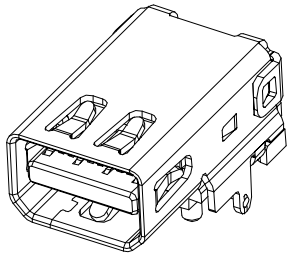


Section A-A



P.C.B Layout
Component side





NOTES:

*Material
Body: LCP UL94V-0 Color:Black
Insert(Molding): LCP UL94V-0 Color:Black
Retainer: LCP UL94V-0 Color:Black
Contact: Phosphor Bronze;
Plating: Au plating on contact area;
Sn(100u" Min.) plating on solder tail;
Ni(40u" Min.) underplating overall.
Shell: Brass;
Plating: Ni(50u" Min.) Plating .

*Mechanical
Insertion Force: 4.5Kg Max
Withdrawal Force: 1.0~4.0Kg Min
Durability: 10000 Cycles

*Electrical Specification
Current Rating: 0.5 Ampere per contact
Contact Resistance: 30 mΩ max.
Insulation Resistance: 100MΩ Min
Dielectric Withstanding Voltage: 500V AC Min

*Environmental
Operating Temperature: -40°c to +85°c.

*How To Order:
20FAL1PH4
- 4:Tube,5:Reel
- H:Halogen Free+RoHs-Compliance
- P:Phosphor Bronze
- 1:Black
- L:LCP
- B:DIP(3.1)+SMT(Height 3.8)
- A:DIP(2.15~2.3)+SMT(Height 3.8)
- Au A:>0.8u" D:15u" F:30u"
- Number of contacts
- Mini Displayport Receptacle

REV	Modifying P.C.B Thickness				
Units	mm	Scale	5:2	Drawing By	Date
Tolerance Unless Otherwise Specified				Zhangtao	10/14-'14
.X ~ ±0.35				Reviewed By	Date
.XX ~ ±0.25				Huqi	10/14-'14
.XXX ~ ±0.15				Approval By	Date
Angle ~ ± 3°				Richard	10/14-'14

BossConn Electronics

Date	09/24-'13	Title	Mini Displayport Receptacle DIP+SMT (APPLE 3.8)
Sheet	1 of 1		
Third Angle Projection		Drawing No.	MDP-F-CN03 REV D