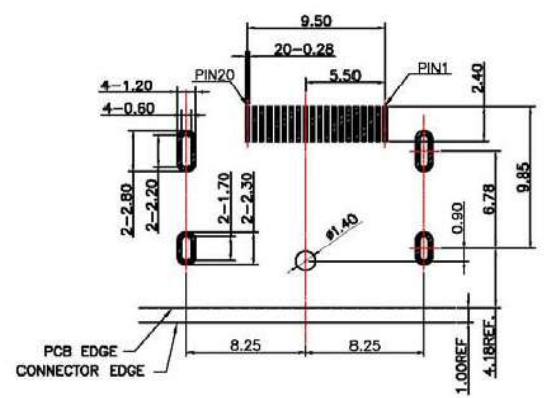
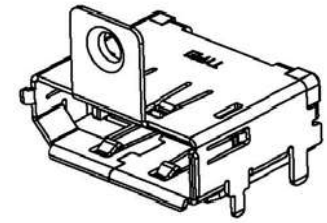


SECTION VIEW



RECOMMENDED P.C.B LAYOUT (PCB THICKNESS: 1.6mm)  
COMPONENT SIDE VIEW (TOLERANCE: ±0.05)

凱帛企業有限公司 KABOE ENTERPRISE CO.,LTD.		
Name Display Port SMT R/A 20PIN(黑膠) 定位柱 G-F 螺絲孔		
Drawing No. DP-1010-2091N		
APPD	-HK--	D-R
General Tolerances : x.xx ± 0.25 x.x ± 0.3	Unit : mm	Scale : ROM

## DP PIN ASSIGNMENT:

### SOURCE SIDE:

PIN	Signal Assignment
1	ML_Lane 0(p)
2	GND
3	ML_Lane 0(n)
4	ML_Lane 1(p)
5	GND
6	ML_Lane 1(n)
7	ML_Lane 2(p)
8	GND
9	ML_Lane 2(n)
10	ML_Lane 3(p)
11	GND
12	ML_Lane 3(n)
13	CONFIG1
14	CONFIG2
15	AUX CH(p)
16	GND
17	AUX CH(n)
18	Hot Plug Detect
19	Return
20	DP_PWR

### SINK SIDE:

PIN	Signal Assignment
1	ML_Lane 3(p)
2	GND
3	ML_Lane 3(n)
4	ML_Lane 2(p)
5	GND
6	ML_Lane 2(n)
7	ML_Lane 1(p)
8	GND
9	ML_Lane 1(n)
10	ML_Lane 0(p)
11	GND
12	ML_Lane 0(n)
13	CONFIG1
14	CONFIG2
15	AUX CH(p)
16	GND
17	AUX CH(n)
18	Hot Plug Detect
19	Return
20	DP_PWR

#### 1.MATERIAL:

- 1.1 INSULATOR: LCP, UL 94V-0, COLOR: BLACK.
- 1.2 CONTACT: COPPER ALLOY, T=0.2mm.
- 1.3 SHELL: BRASS, T=0.40mm.

#### 2.FINISH:

- 2.1 CONTACT: GOLD FLASH IN CONTACT AREA,  
100u"MIN MATTE TIN PLATED IN SOLDER AREA,  
50u" MIN. NICKEL UNDERPLATED OVERALL.
- 2.2 SHELL: 50u" MIN. NICKEL PLATED OVERALL.

#### 3. CHARACTERISTICS:

- 3.1 CURRENT RATING: 0.5AMIN., 3.3V 4.5A FOR PIN20#(POWER PIN),  
REFER TO THE ATTACHED MATERIAL SPECIFICATION TEST CONDITIONS,  
THE PIN20# CAN MEET 4.5A TEMPERATURE RISE IS LESS THAN 30°C.
- 3.2 VOLTAGE RATING : 40V
- 3.3 CONTACT RESISTANCE: 30 mΩ MAX
- 3.4 INSULATION RESISTANCE:  
a, UNMATED: 100MΩ MIN AT 500 VDC  
b, MATED: 10M OHMS MIN AT 150 VDC
- 3.5 DIELECTRIC WITHSTANDING VOLTAGE: 500V AC R.M.S. FOR 1MINUTE
- 3.6 DURABILITY: 10000 CYCLES.
- 3.7 MATING FORCE: 4.5KGF MAX.  
UNMATING FORCE: 1.0~4.0KGF.
- 3.8 SPING POSITIVE FORCE: 0.6KGF MIN. AT TRAVEL 1.4mm.
- 3.9 OPERATING TEMPERATURE: -40°C~+85°C;

#### 4. NOTES:

- 4.1 ALL COMPONENTS ARE HALOGEN FREE & RoHS2.0 COMPLIANT.
- 4.2 RESISTANCE TO SOLDERING HEAT: 260°C FOR 10 SECONDS.

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APPD	-HK--	D-R
General Tolerances : x.xx± 0.25 x.x± 0.3	Unit : mm	Scale : ROM