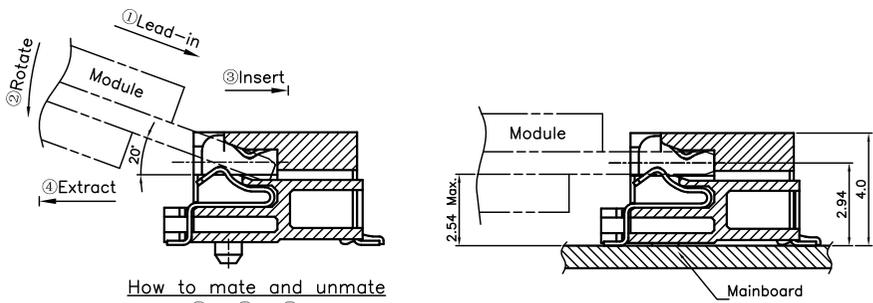
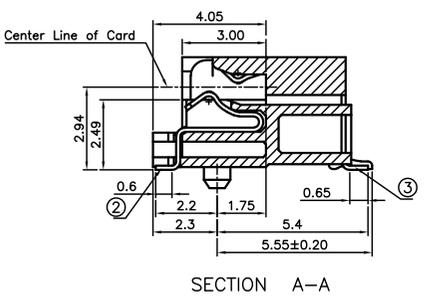
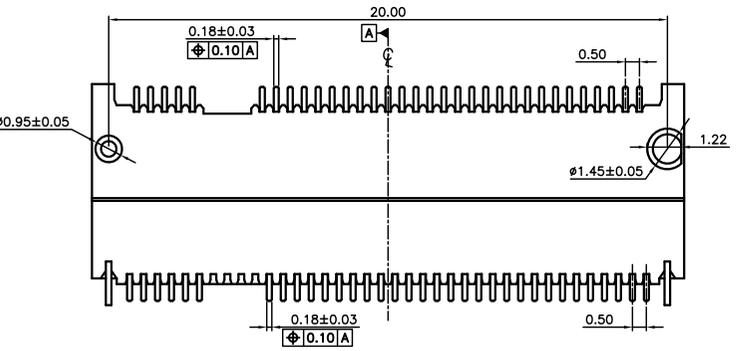
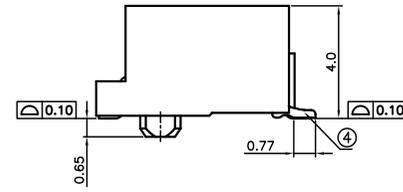
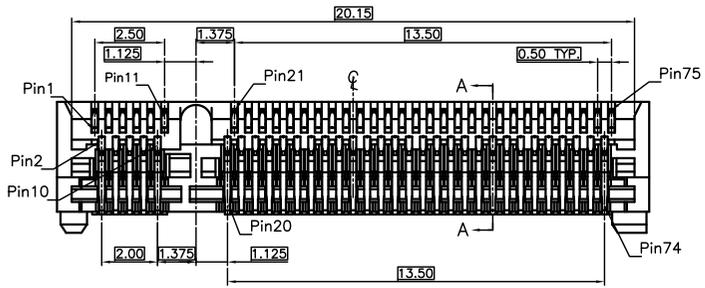
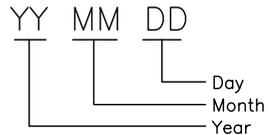
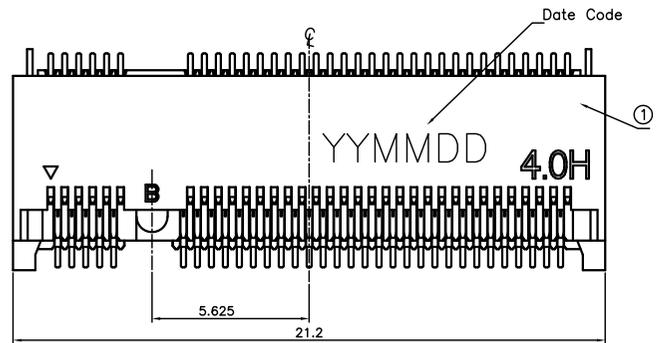


# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2014/12/22	Phebe Su
A1			Add dim	2015/05/11	Phebe Su
A2			Change	2024/03/14	Ken Lin



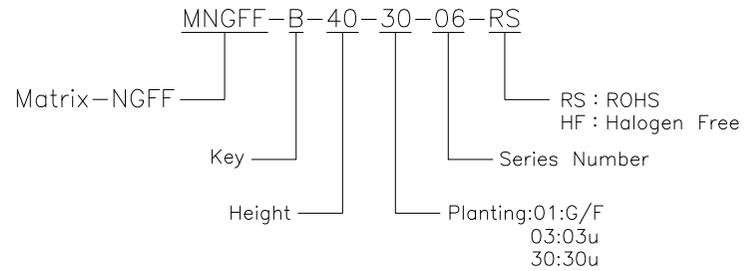
How to mate and unmate  
 Mate: ① - ② - ③  
 Unmate: ④

④	LEG
③	Upper Contact
②	Lower Contact
①	HOUSING
Item	Part Description

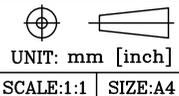
**Notes:**

- Materials
  - a. Housing: LCP+30% GF,UL94 V-0(E471i);COLOR-BLACK
  - b. Contact: C5210-SH T=0.15mm, Mating area Au 30u", Solder tail Matte Tin; 100u" Min. Matte Tin plating at solder tail, all over Nickel(50u" Min.);
  - c. LEG: C2680-EH T0.20mm, 100u" Min. Matte Tin plating over all, all over nickel(50u" Min.).
- RoHS 2.0 and HF compliant;
- Ratings
  - a. Voltage Rating: 50V AC (Per pin);
  - b. Current Rating: 0.5A (Per pin);
  - ⚠ c. Operating Temperature: -40°C ~ 85°C;
- Electrical Requirement:
  - a. LLCR: 55mΩ Max,(Initial), 20mΩ Max. change allowed(Final);
  - b. Dielectric Withstanding Voltage: 300V AC (RMS) for 1 minute;
  - c. Insulation Resistance: 500MΩ Min. @ 500V DC;
- Mechanical Requirement:
  - a. Mating Force: 20N Max.;
  - b. Unmating Force: 20N Max.;
  - c. Durability: 60 Cycles;
  - d. Vibration: No electrical discontinuity greater than 1u sec shall occur;
  - e. Mechanical Shock: 285G half sine / 6 axis, No electrical discontinuity greater than 1u sec shall occur;
- Resistance to heat: the temperature shall be 260±5°C 10±1 seconds.

**ORDER INFORMATION :**

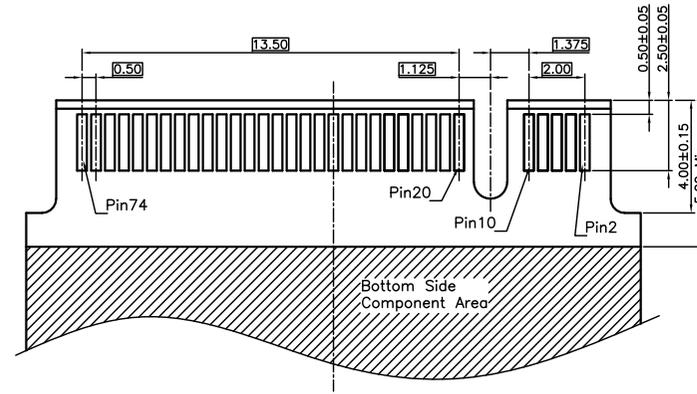
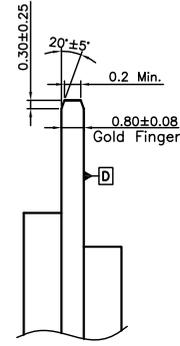
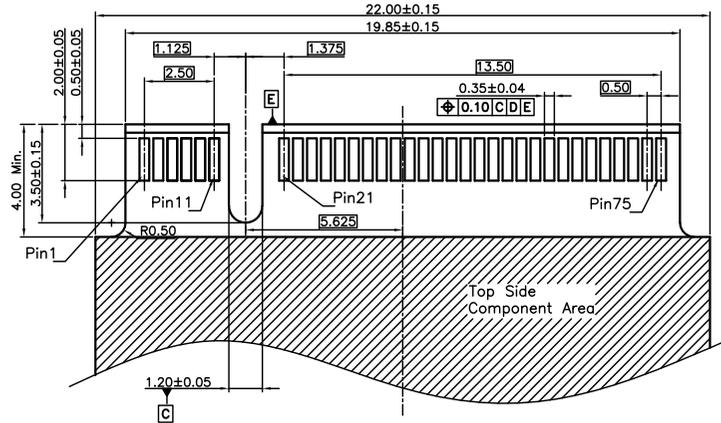


<b>Matrix Electronics Co.,Ltd</b>			
<b>TOLERANCE:</b> X:X ±0.20 X:XX ±0.10 X:XXX ±0.05 ANGLE: ±3°	<b>DESIGN BY :</b> Ken Lin	<b>DATE :</b> 2024/03/14	<b>PART NAME:</b> NGFF Socket (M.2 Connector) 4.0H, STD B Key
<b>CHECKED BY:</b> Hanson Huang	<b>DATE :</b> 2024/03/14	<b>PART NO.</b> MNGFF-B-40-30-06-RS	
<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2024/03/14	<b>MOLD NO.</b> NA	
<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2024/03/14	<b>DRAW NO.</b> SHEET NO.	1 OF 2

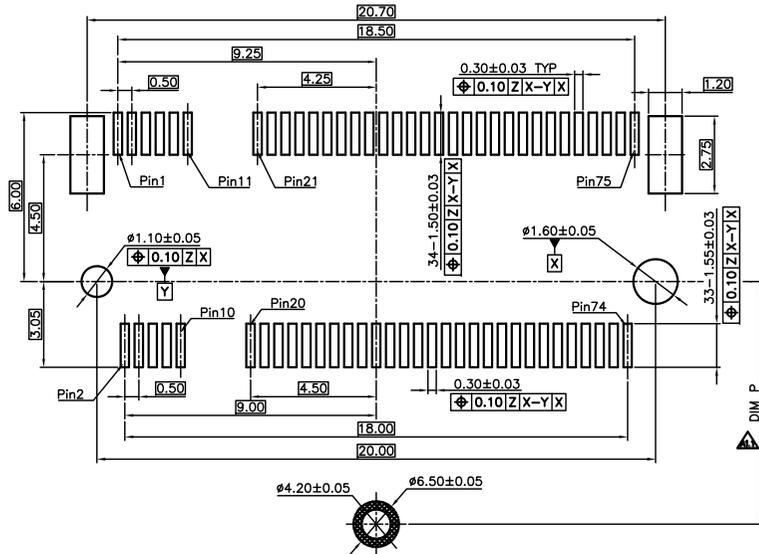


# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2014/12/22	Phebe Su
A1			Add dim	2015/05/11	Phebe Su
A2			Change	2024/03/14	Ken Lin



Recommended Mould Finger Layout  
Default Tolerance ±0.05



Recommended PCB Layout (Top View)  
Default Tolerance ±0.05

22110	108.25
2280	78.25
2260	58.25
2242	40.25
2230	28.25
3042	40.25
3030	28.25
TYPE	DIM P



Matrix Electronics Co.,Ltd

TOLERANCE: X:X ±0.20 X:XX ±0.10 X:XXX ±0.05 ANGLE: ±3°	DESIGN BY : Ken Lin	DATE : 2024/03/14	PART NAME: NCGF Socket (M.2 Connector) 4.0H, STD B Key
 UNIT: mm [inch] SCALE:1:1 SIZE:A4	CHECKED BY: Hanson Huang	DATE : 2024/03/14	PART NO. MNGFF-B-40-30-06-RS
	APPROVED BY1: Richard Hsieh	DATE : 2024/03/14	MOLD NO. NA
	APPROVED BY2: Richard Hsieh	DATE : 2024/03/14	DRAW NO. SHEET NO. 2 OF 2