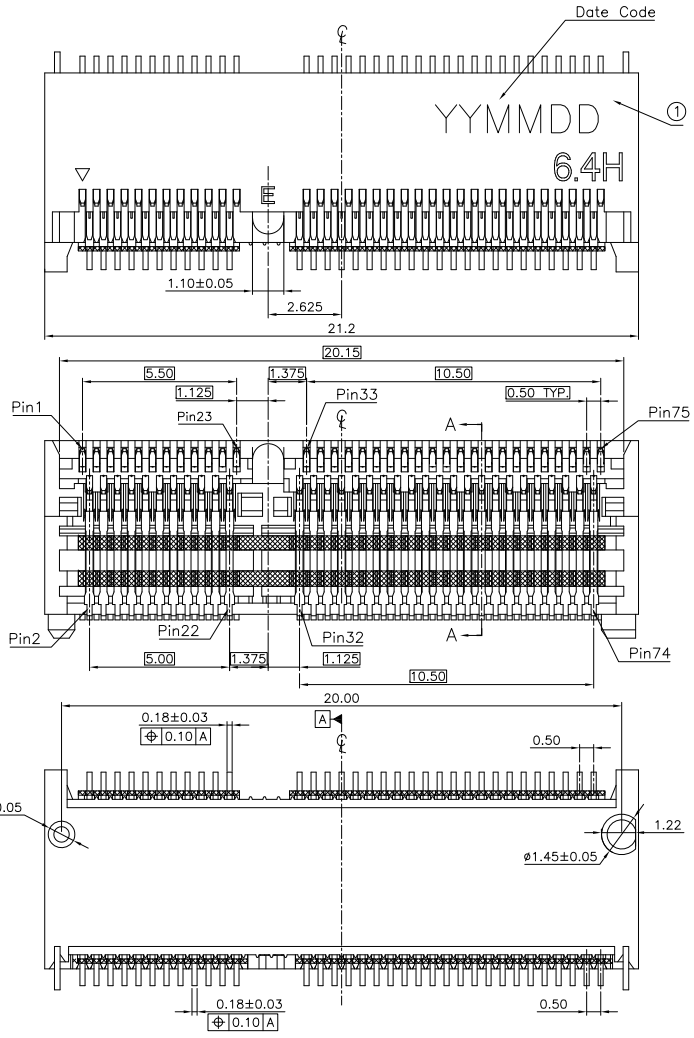
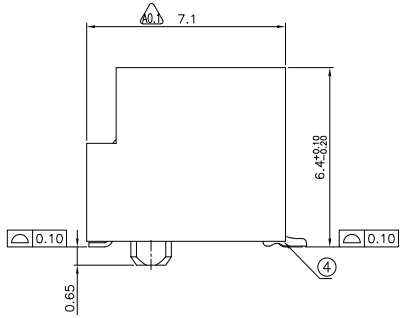
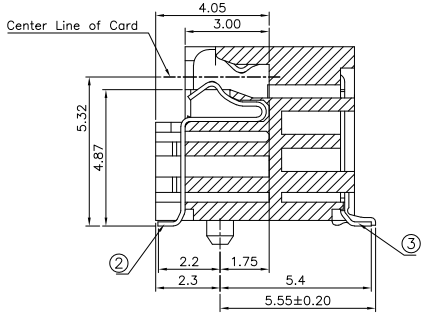
GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2015/07/03	Phebe Su
A0.1			Change	2023/09/08	Ken Lin

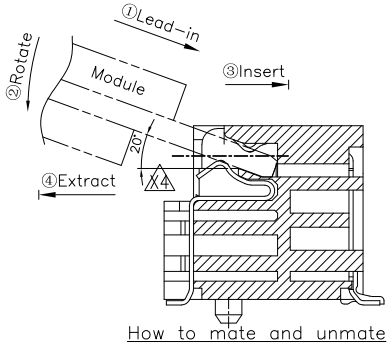


YY MM DD
Day
Month
Year





SECTION A–A



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

Notes:
1. Materials
   a. Housing: LCP+30% GF,UL94 V–0(E471i); BLACK
   b. Contact: C5210–SH T=0.15mm,
   A0.1 Mating area G/F(1u" Min.), 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.).
2. RoHS 2.0 and HF compliant;
3. Ratings
   a. Voltage Rating: 50V AC (Per pin);
   b. Current Rating: 0.5A (Per pin);
   A0.1 c. Operating Temperature: –40°C ~ 95°C;
4. 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;
5. 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;
6. Resistance to heat: the temperature shall be 260±5°C 10±1 seconds.

ORDER INFORMATION :

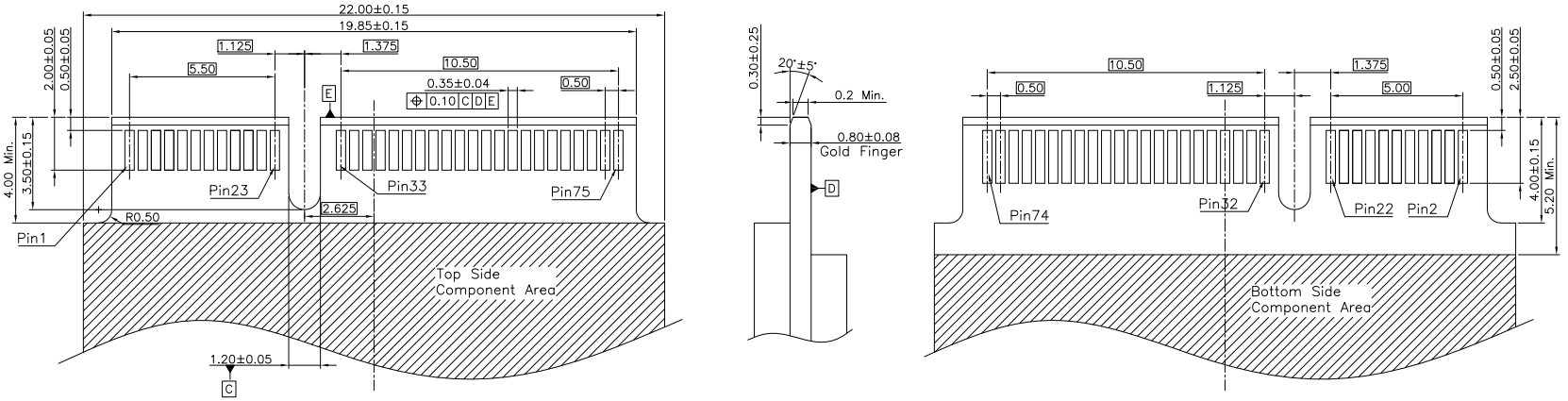
MNGFF–E–64–01–05–RS
- Matrix–NGFF
- Key
- Height
- Planting: 01:G/F(1u" Min) 15:15u 30:30u
- Series Number
- RS : ROHS HF : Halogen Free

Matrix Electronics Co.,Ltd

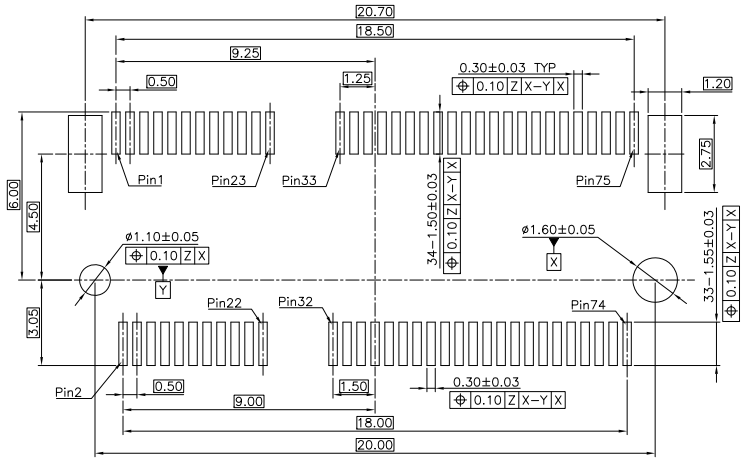
TOLERANCE: X ±0.20, X.X ±0.10, X.XX ±0.05, X.XXX ±0.05, ANGLE: ±3°	DESIGN BY : Ken Lin	DATE : 2023/09/08	PART NAME: NGFF Socket (M.2 Connector) 6.4H, STD E key
	CHECKED BY: Vicky Hsieh	DATE : 2023/09/08	PART NO. MNGFF–E–64–01–05–RS
	APPROVED BY1: Richard Hsieh	DATE : 2023/09/08	MOLD NO. NA
UNIT: mm [inch]	APPROVED BY2: Richard Hsieh	DATE : 2023/09/08	DRAW NO.
SCALE:1:1 SIZE:A4			SHEET NO. 1 OF 2

GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2015/07/03	Phebe Su
A0.1			Change	2023/09/08	Ken Lin



Recommended Mould Finger Layout
Default Tolerance ±0.05



Recommended PCB Layout(Top View)
Default Tolerance ±0.05

Matrix Electronics Co.,Ltd

TOLERANCE: X ±0.20 X.X ±0.10 X.XX ±0.05 X.XXX ±0.03 ANGLE: ±3°	DESIGN BY : Ken Lin	DATE : 2023/09/08	PART NAME: NGFF Socket (M.2 Connector) 6.4H, STD E key
	CHECKED BY: Vicky Hsieh	DATE : 2023/09/08	PART NO. MNGFF-E-64-01-05-RS
	APPROVED BY1: Richard Hsieh	DATE : 2023/09/08	MOLD NO. NA
UNIT: mm [inch]	APPROVED BY2: Richard Hsieh	DATE : 2023/09/08	DRAW NO.
SCALE:1:1 SIZE:A4			SHEET NO. 2 OF 2