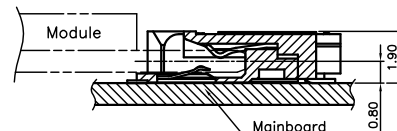
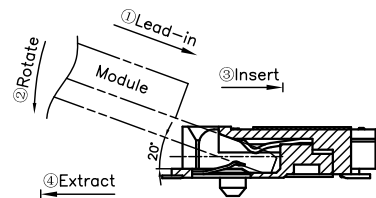
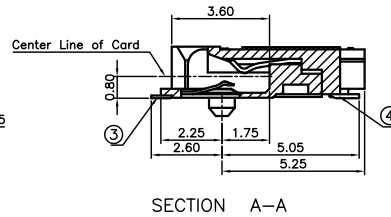
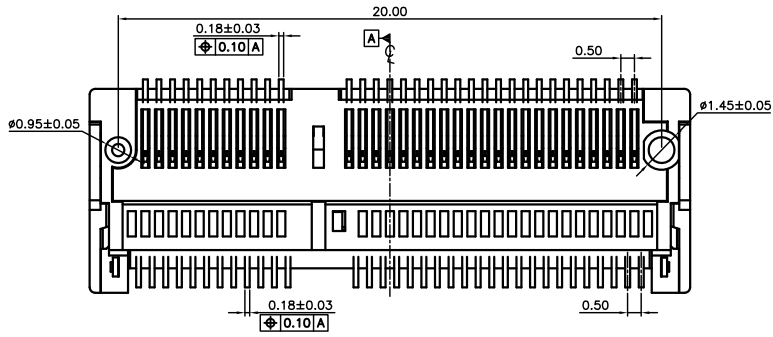
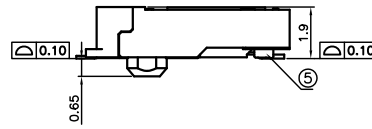
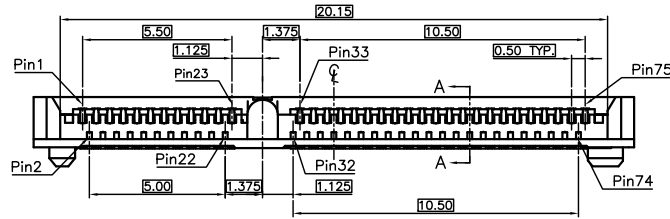
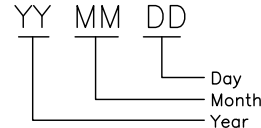
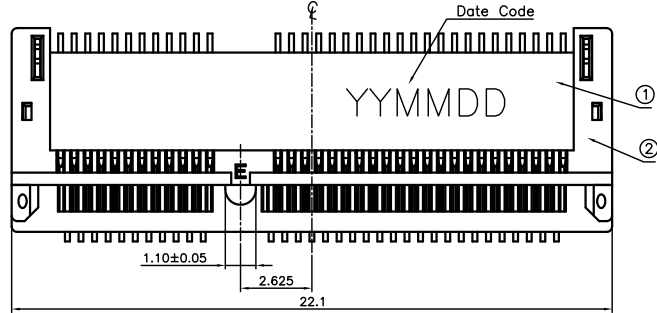


# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
AO			Initial	2014/03/10	Jamie Zie

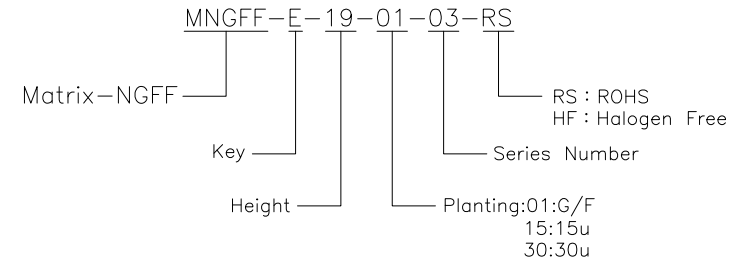



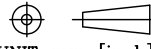
How to mate and unmate  
Mate: ① - ② - ③  
Unmate: ④

## Notes:

- Materials
  - Housing: LCP+30% GF,UL94 V-0(E471i);
  - Contact: C5210-SH (Upper Contact T=0.15mm, Lower Contact T=0.10mm), Gold Plating at mating area & solder tail(See P/N), all over Nickel(30~150u");
  - LEG: C2680-EH T0.20mm, 30~120u" Tin plating over all, all over nickel(30~150u").
- RoHS 2.0 and HF compliant;
- Ratings
  - Voltage Rating: 50V AC (Per pin);
  - Current Rating: 0.5A (Per pin);
  - Operating Temperature: -40°C ~ 80°C;
- Electrical Requirement:
  - LLCR: 55mΩ Max.(Initial), 20mΩ Max. change allowed(Final);
  - Dielectric Withstanding Voltage: 300V AC (RMS) for 1 minute;
  - Insulation Resistance: 500MΩ Min. @ 500V DC;
- Mechanical Requirement:
  - Mating Force: 20N Max.;
  - Unmating Force: 20N Max.;
  - Durability: 60 Cycles;
  - Vibration: No electrical discontinuity greater than 1u sec shall occur;
  - 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 :

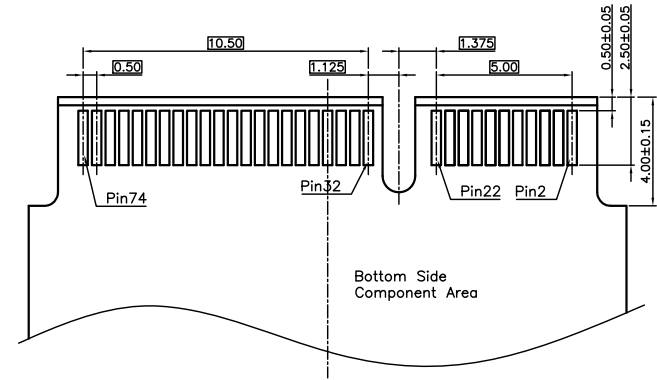
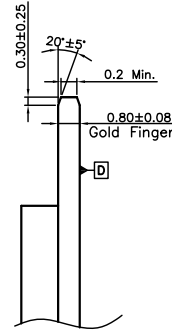
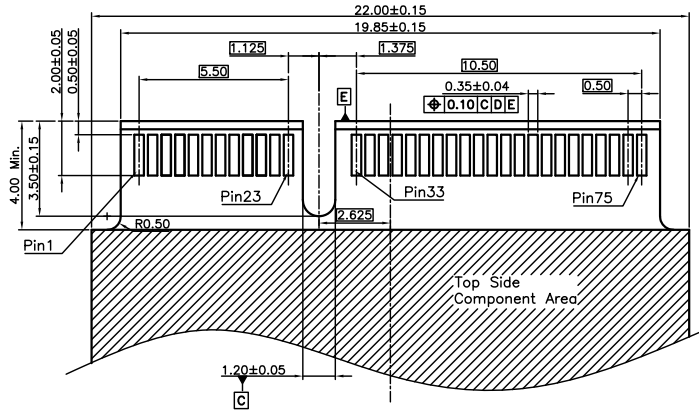


NO	VARIETY	QTY	MATERIAL	REMARK
	 <b>Matrix Electronics Co.,Ltd</b>			
<b>TOLERANCE:</b> X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°		<b>DESIGN BY :</b> Jamie Zie	<b>DATE :</b> 2014/03/10	<b>PART NAME:</b> NGFF Socket (M.2 Connector) 2.0H, STD E key
 <b>UNIT: mm [inch]</b>		<b>CHECKED BY:</b> Vicky Hsieh	<b>DATE :</b> 2014/03/10	<b>PART NO.</b> MNGFF-E-19-01-03-RS
<b>SCALE:1:1 SIZE:A4</b>		<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2014/03/10	<b>MOLD NO.</b> NA
		<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2014/03/10	<b>DRAW NO.</b> <b>SHEET NO.</b> 1 OF 2

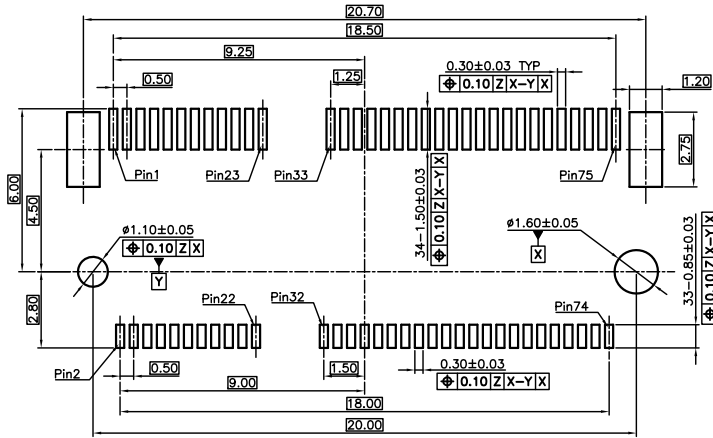
⑤	LEG
④	Upper Contact
③	Lower Contact
②	HOUSING
①	Mylar
Item	Part Description

# GP Component



REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
AO			Initial	2014/03/10	Jamie Zie



Recommended Mould Finger Layout  
Default Tolerance ±0.05



Recommended PCB Layout (Top View)  
Default Tolerance ±0.05

NO	VARIETY	QTY	MATERIAL	REMARK
 <b>Matrix Electronics Co.,Ltd</b>				
<b>TOLERANCE:</b> X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°		<b>DESIGN BY :</b> Jamie Zie	<b>DATE :</b> 2014/03/10	<b>PART NAME:</b> NGFF Socket (M.2 Connector) 2.0H, STD E key
 <b>UNIT: mm [inch]</b>		<b>CHECKED BY:</b> Vicky Hsieh	<b>DATE :</b> 2014/03/10	<b>PART NO.</b> MNGFF-E-19-01-03-RS
<b>SCALE:1:1</b> <b>SIZE:A4</b>		<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2014/03/10	<b>MOLD NO.</b> NA
		<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2014/03/10	<b>DRAW NO.</b> <b>SHEET NO.</b> 2 OF 2