

1 2 3 4 5 6 7 8

H

G

F

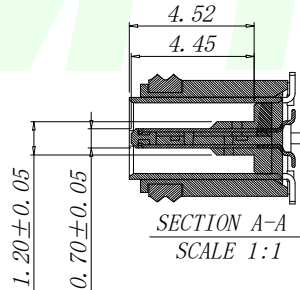
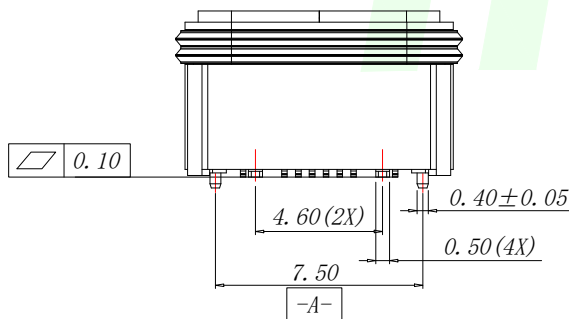
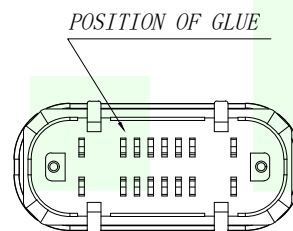
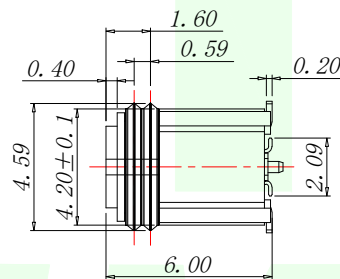
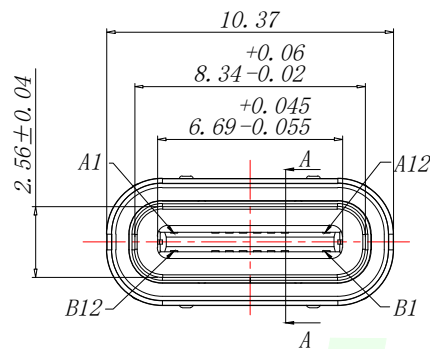
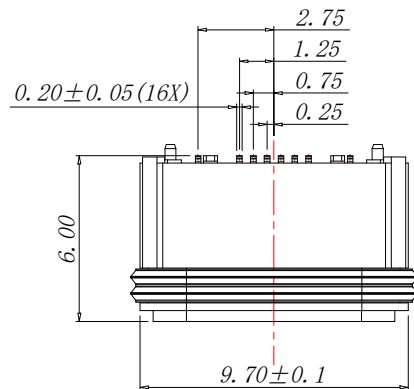
E

D

C

B

A



NOTE:

1. MATERIAL SPECIFICATION:

1. HOUSING: HIGH TEMPERATURE RESISTANT PLASTIC
2. TERMINAL: COPPER ALLOY
3. MID PLATE: STAINLESS STEEL
4. FRONT SHELL: STAINLESS STEEL
5. O-RING: SILICA GEL, BLACK
6. GLUE: EPOXY, BLACK

2. PLATING SPECIFICATION:

- 2-1. TERMINAL:
Ni 50u" MIN. UNDER PLATED OVER ALL.
Au G/F PLATED ON THE CONTACT AREA
Au G/F PLATED ON THE SOLDER AREA

2-2. SHELL:

Ni 50u" MIN. UNDER PLATED OVER ALL.

2-3. MID PLATE:

CLEAR ONLY

3. MECHANICAL PERFORMANCE,

- 3-1. INSERTION FORCE: 0.5~2.0kgf.
- 3-2. REMOVAL FORCE: 0.8kgf~2.0kgf.
- 3-3. DURABILITY: 10000 CYCLES.

4. ELECTRICAL PERFORMANCE,

- 4-1. VOLTAGE RATING: 5 V DC/AC (RMS. max)
CURRENT RATING: 5 AMPS. FOR TOTAL VBUS/GND PINS;
- 4-2. LLCR:
VBUS & GND PINS AND OTHER PINS: 40mΩ/PIN MAX.
LLCR MAX. CHANGE OF ALL PINS: 10mΩ.
- 4-3. INSULATION RESISTANCE: 100MΩ MIN
- 4-4. DIELECTRIC WITHSTAND VOLTAGE, AC 100V FOR 1 MINUTE.

5. ENVIRONMENTAL PERFORMANCE:

OPERATING TEMPERATURE: -40° C~+85° C.

6. IR REFLOW:

THE PEAK TEMPERATURE ON THE BOARD SHALL BE MAINTAINED FOR 10 SECONDS AT 260° C.

7. WATERPROOF: IPX5

GENERAL TOLERANCES
UNLESS SPECIFIED

.X±0.30

X.°±5°

.XX±0.20

X.°±3°

.XXX±0.10

.XX°±2°

MANUFACTURE DWG



深圳市华明通电子有限公司

Shenzhen Huamingtong Electronics Co., Ltd

PART NO.

HMT-TYPE-C-16P-X5H6

DESIGN: James

CHED: Talen

APPD: Sophia

TITLE:
USB TYPE C 16pos
VERTIACL H=6.0mm IPX5

CUSTOMER

SCALE

N:A

SIZE
A4

UNITS
MM

SHEET
1/3

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

H

G

F

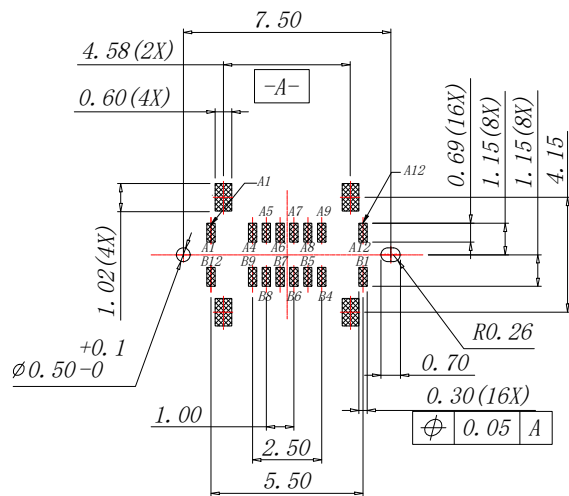
E

D

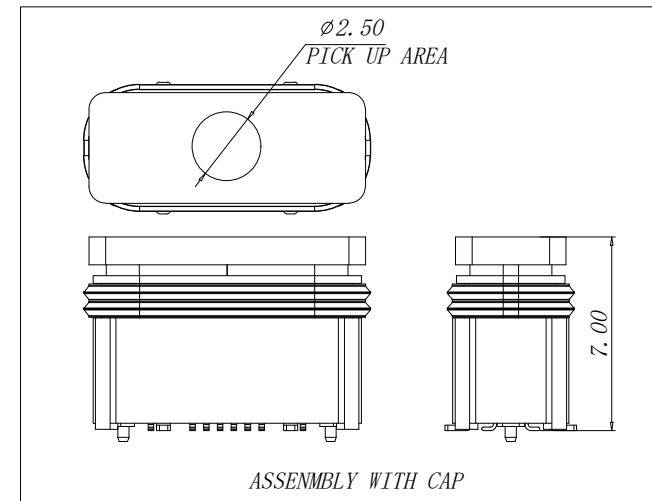
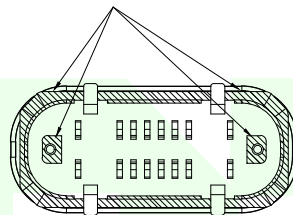
C

B

A



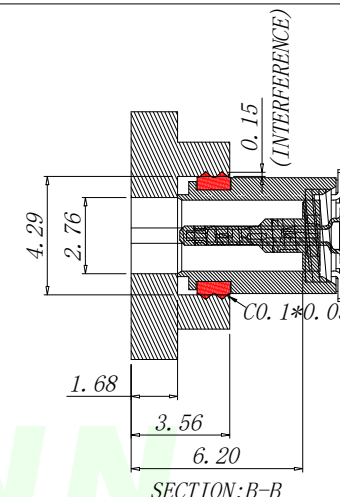
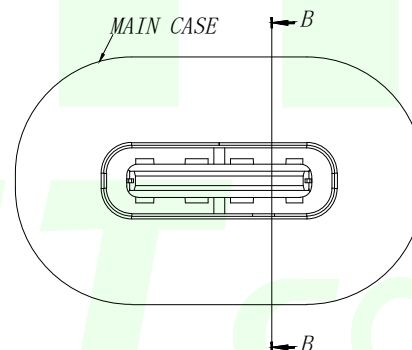
THERE IS SOME GLUE ON THE MAKE AREA (MAY BE)
IT IS NOT AFFECT SOLDERING



RECOMMENDED PCB LAYOUT (TOP VIEW)
THICKNESS $0.8 \pm 0.10\text{mm}$; DEFAULT TOLERANCE: ± 0.05

USB TYPE-C PIN ASSIGNMENTS

PIN NUMBER	SIGNAL NAME	PIN NUMBER	SIGNAL NAME
A1	GND	B12	GND
A4	VBUS	B9	VBUS
A5	CC1	B8	SBU2
A6	Dp1	B7	Dn2
A7	Dn1	B6	Dp2
A8	SBU1	B5	CC2
A9	VBUS	B4	VBUS
A12	GND	B1	GND



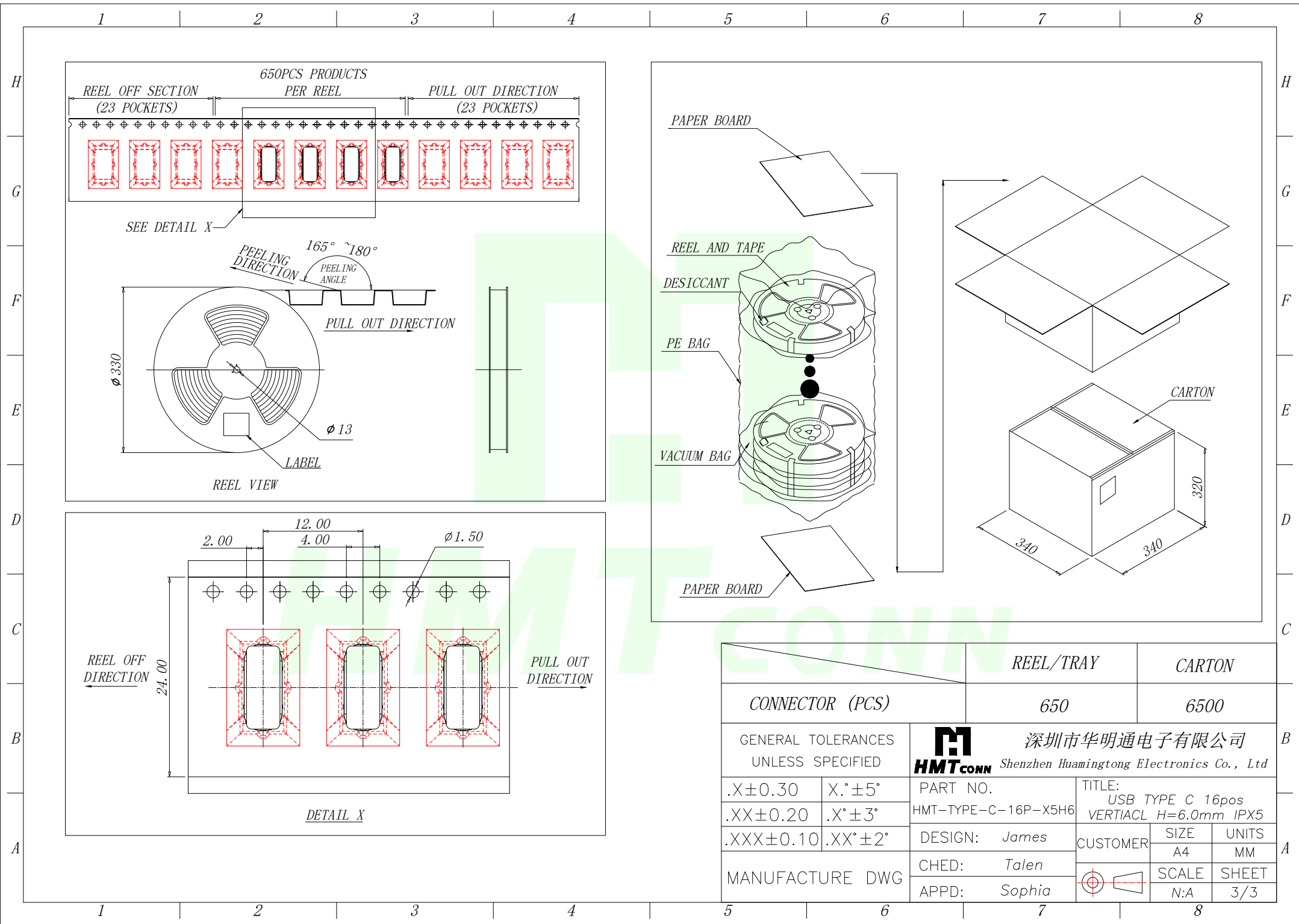
RECOMMENDED OPENING DIMENSIONS
OF CASE MATING AREA WITH SEALING RING

GENERAL TOLERANCES
UNLESS SPECIFIED

.X ± 0.30	X. $^{\circ} \pm 5^{\circ}$	PART NO.	TITLE:		
.XX ± 0.20	.X. $^{\circ} \pm 3^{\circ}$	HMT-TYPE-C-16P-X5H6	USB TYPE C 16pos		
.XXX ± 0.10	.XX. $^{\circ} \pm 2^{\circ}$	DESIGN: James	CUSTOMER	SIZE	UNITS
		CHED: Talen		A4	MM
MANUFACTURE DWG		APPD: Sophia		SCALE	SHEET
				N:A	2/3



深圳市华明通电子有限公司
Shenzhen Huamingtong Electronics Co., Ltd



		REEL/TRAY		CARTON	
CONNECTOR (PCS)		650		6500	
GENERAL TOLERANCES UNLESS SPECIFIED		HMTCONN 深圳市华明通电子有限公司 Shenzhen Huamingtong Electronics Co., Ltd			
.X±0.30	X.°±5°	PART NO. HMT-TYPE-C-16P-X5H6		TITLE: USB TYPE C 16pos VERTIACL H=6.0mm IPX5	
.XX±0.20	.X°±3°	DESIGN: James		CUSTOMER	SIZE
.XXX±0.10	.XX°±2°	CHED: Talen			A4
MANUFACTURE DWG		APPD: Sophia			SCALE
					N:A
				SHEET	
				3/3	