

Finished Product 3D



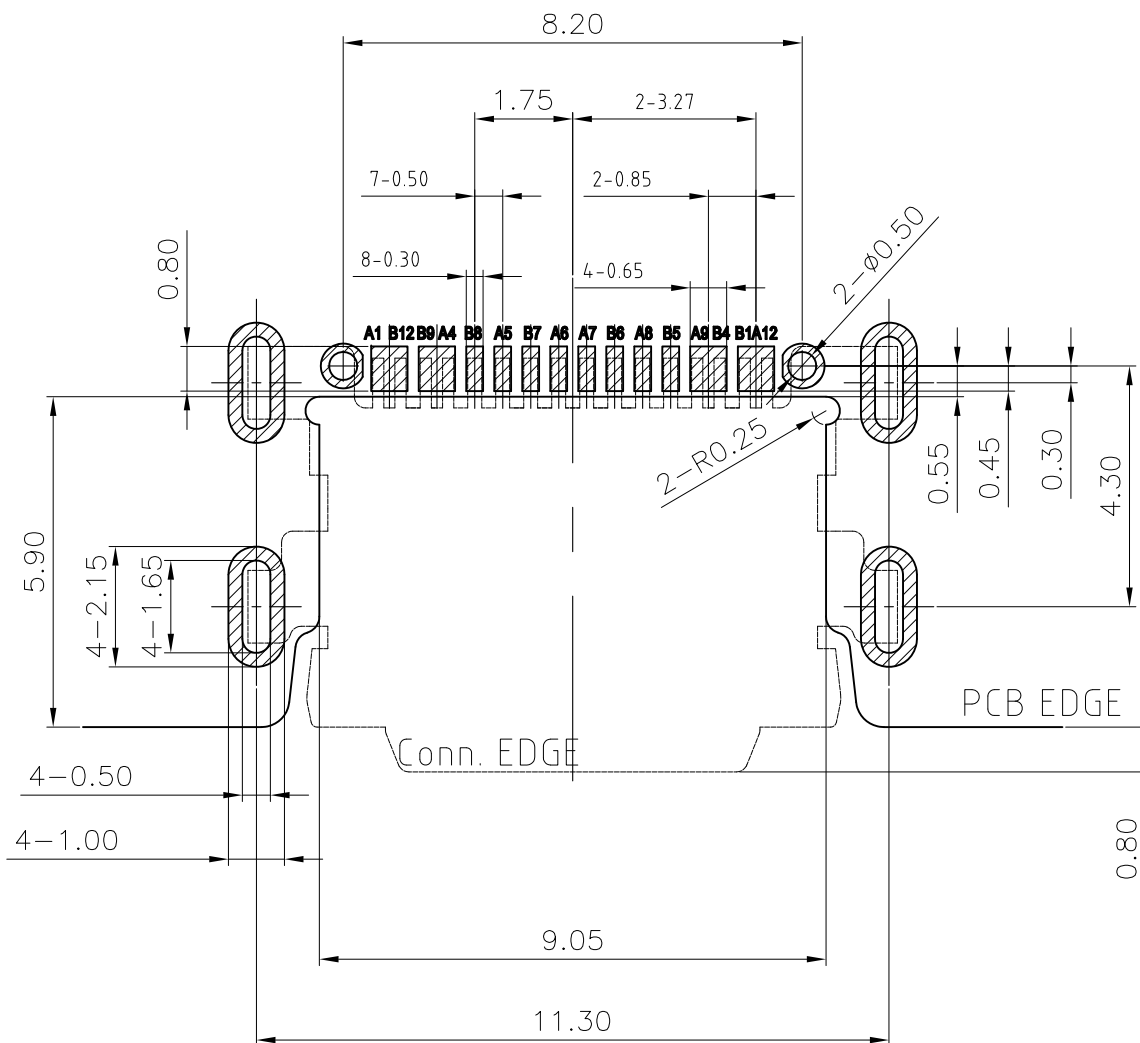
TABLE:

H	LIM	1	Silicone Hardness 60A	UL94V-0, BLACK
G	GLUE	1	Silicone	UL94V-0
F	OUTER SHELL	1	Stainless Steel, SUS304 T=0.30	OVER ALL: 50u" Min Ni UNDERPLATED SOLDER TAIL: G/F Au PLATED
E	INNER SHELL	1	Stainless Steel, SUS316L T=0.20	CLEAN
D	SOLDER-PLATE	1	Stainless Steel, SUS304 T=0.15	CLEAN
C	HOUSING	1	High-Temp Plastics PA9T	UL94V-0, Color: Black.
B	MID-PLATE	1	Stainless Steel, SUS301 T=0.20	OVER ALL: 50u" Ni UNDERPLATED
A	CONTACTS	16	Copper Alloy C18400 T=0.25mm	CONTACT AREA: Au 3u" Min SOLDER TAIL: G/F OVER ALL: 50u" Min Ni UNDERPLATED
ITEM	NAME	Q'TY	MATERIAC	FINISH
PART NO.: SEE THE PART NUMBER CODE			DRAWN BY: HuangXiaoHao  深圳市中科兴达科技有限公司 SHENZHEN ZDT TECHNOLOGY CO., LTD.	
GENERAL TOLERANCES		CHECKED BY: liuzongliang APPROVED BY: Jacky THIRD ANGLE PROJECTION 	TITLE USB Type-C Receptacle 16pin Waterproof IPX7 Mid-Mount 1.13mm, Exposed Tongue 0.8mm	
x.xxxx	±	---		
x.xxx	±	0.10		
x.xx	±	0.15		
x.x	±	0.20		
ANGULAR	±	3°	DIMENSIONS mm	SCALE 1:1 DRAWING A4 SHEET NO. 1 OF 3 DWG.NO. CF190-16-02



REV	ECN No.	DATE	REMARK
A	NEW	2022.11.01	NEW RELEASE
B	---	2023.09.07	增加真空包装规格
C	---	2023.09.25	增加硬度规格描述
D	---	2024.04.15	增加舌片直线度管控

- NOTES:
- ELECTRICAL CHARACTERISTICS;
1.1 CONTACT CURRENT RATING:5A
1.2 CONTACT RATED VOLTAGE:5V/20V DC;
1.3 CONTACT RESISTANCE;
INITIAL: 40mohm Max. AFTER:
 $\Delta < 10\text{mohm}$
1.4 INSULATION RESISTANCE:100Mohm Min;
1.5 WITHSTANDING STRENGTH:100V AC FOR 1 MINUTE;
 - MECHANICAL CHARACTERISTICS;
2.1 INSERTION FORCE:INITIAL 6-20N ; AFTER 5-20N;
2.2 EXTRACTION FORCE:INITIAL 8-20N; AFTER 6-20N;
2.3 DURABILITY:10000 CYCLES
 - RoHS OR HF COMPLIANT
 - ENVIRONMENTAL PERFORMANCE:
OPERATING TEMPERATURE:-20℃~+85℃.
 - RECOMMENDED PROCESS:
THE PEAK TEMPERATURE ON THE BOARD
SHALL MAINTAIN 10±1 SECONDS AT 260±5℃.
 - Waterproof Level:IPX7



RECOMMENDED PCB LAYOUT

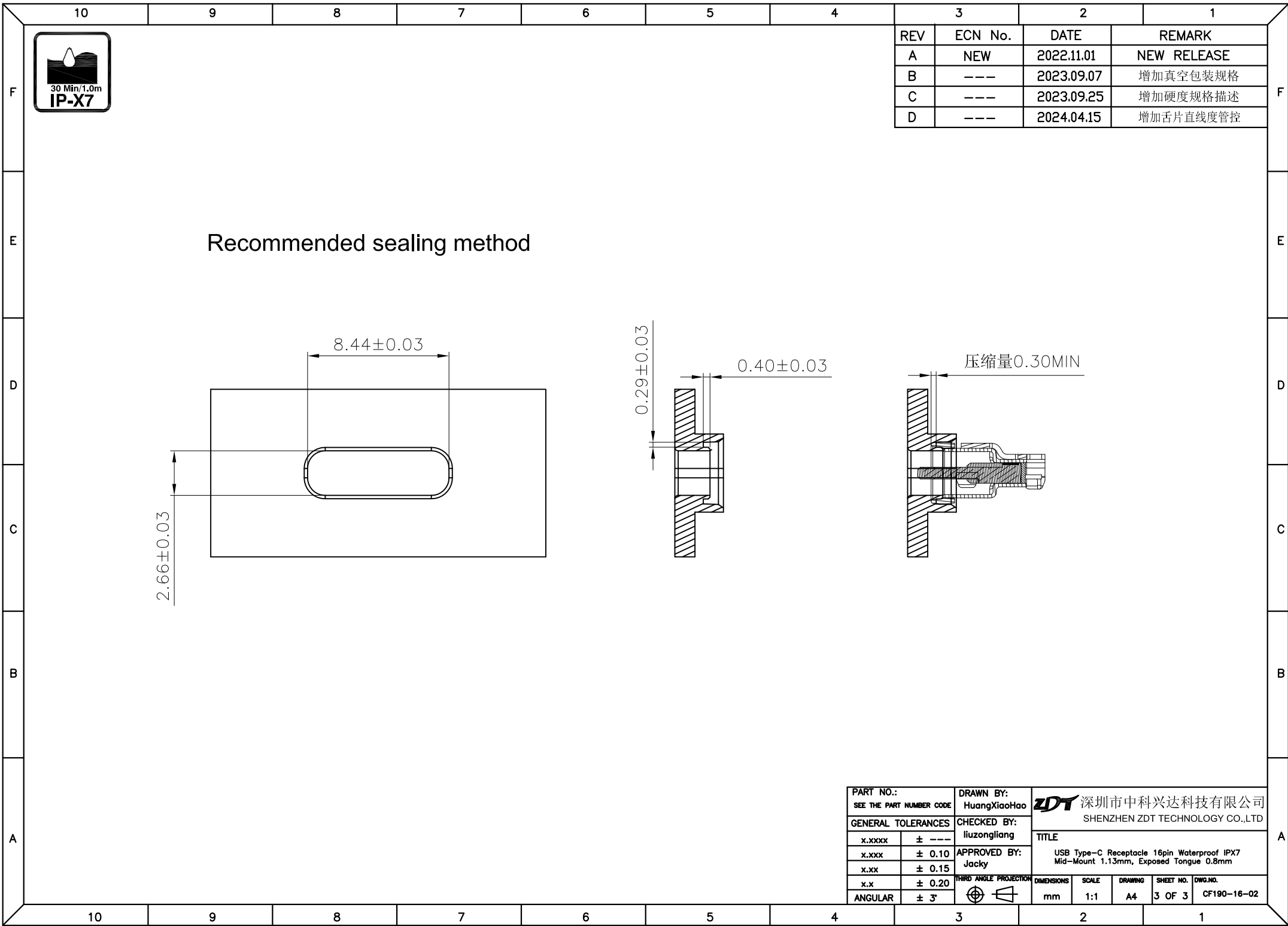
TOLERANCE:±0.05
STENCIL THICKNESS:0.12mm

SCALE:2:1

PIN DEFINITION:

PIN No.	A1	A4	A5	A6	A7	A8	A9	A12
SIGNAL NAME	GND	VBus	CC1	D+	D-	SBU1	VBus	GND
PIN No.	B12	B9	B8	B7	B6	B5	B4	B1
SIGNAL NAME	GND	VBus	SBU2	D-	D+	CC2	VBus	GND

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GENERAL TOLERANCES	CHECKED BY: liuzongliang	TITLE	
x.xxxx ± ---	APPROVED BY: Jacky	USB Type-C Receptacle 16pin Waterproof IPX7 Mid-Mount 1.13mm, Exposed Tongue 0.8mm	
x.xxx ± 0.10	THIRD ANGLE PROJECTION	DIMENSIONS	SHEET NO.
x.xx ± 0.15	mm	SCALE	2 OF 3
x.x ± 0.20	1:1	DRAWING	CF190-16-02
ANGULAR ± 3°		A4	



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SEE THE PART NUMBER CODE		HuangXiaoHao					
GENERAL TOLERANCES		CHECKED BY:		TITLE			
liuzongliang		APPROVED BY:					
x.xxxx ± ---		Jacky		USB Type-C Receptacle 16pin Waterproof IPX7 Mid-Mount 1.13mm, Exposed Tongue 0.8mm			
x.xxx ± 0.10							
x.xx ± 0.15							
x.x ± 0.20							
ANGULAR ± 3°							