

REV	DESCRIPTION	DATE
A	Initial Release	18'01.24

NOTES:

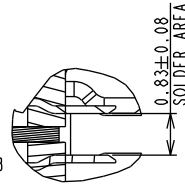
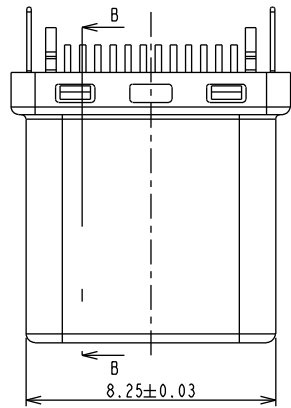
- 1.0. ELECTRICAL CHARACTERISTIC:
- 1.1. LOW LEVEL CONTACT RESISTANCE:
INITIAL: 40 mΩ FOR ALL CONTACT MAXIMUM.
AFTER TEST: 50mΩ MAXIMUM
- 1.2. DIELECTRIC WITHSTANDING VOLTAGE:
100 VAC FOR ONE MINUTE SEA LEVEL.
- 1.3. INSULATION RESISTANCE:
100 MΩ MINIMUM.
- 1.4. CURRENT RATING:
VBUS AND GND CONTACTS RATED AT 1.25A EA.
PARALLELED FOR A TOTAL OF 5A.
- 2.0. MECHANICAL CHARACTERISTIC:
- 2.1. DURABILITY: 10,000 CYCLES.
- 2.2. INSERTION FORCE: 5N~20N .
- 2.3. EXTRACTION FORCE: AFTER DURABILITY
INITIAL EXTRACTION FORCE 6TH CYCLES OF 8N ~ 20 N
1~5 INSERTION/EXTRACTION PRECONDITIONING CYCLES
DURABILITY 32TH EXTRACTION FORCE SHALL BE 33% OF
THE INITIAL READING AND WITHIN THE RANGE 8 N ~ 20 N.
(6 CYCLES ADDITIONAL 25 INSERTION/EXTRACTION CYCLES)
AFTER DURABILITY 10,000 CYCLES OF 6N ~ 20N
- 3.0. OPERATING TEMPERATURE: -55°C TO +85°C.
- 4.0 KIT DOES NOT INCLUDE RECOMMENDED
OVERMOLD OR PCB
- 5.0 THIS PLUG IS DESIGNED TO COMPLY
WITH USB TYPE C SPECIFICATION

PART NUMBER CODE

UB31C11- xx M KH xx x xx
1 2 3 4 5 6 7

1. Contact Positions:
22: 22 pins 24: 24 pins
2. Contact Type:
M: Male Plug
3. Insulator Housing:
KH: Black PA-46
KC: Black PA-46 + CAP
4. Contact Plating:
01: Selective G/F
30: Selective 30u" Gold
5. Shell Plating:
N: Solderable Nickel
6. Shielded Shell Type:
0: Shield L=16.71mm H=3.7mm T=0.15/OD5.0mm
3: Shield L=22.0mm H=3.7mm T=0.15/OD5.0mm
4: Shield L=22.0mm H=3.9mm T=0.25/OD5.0mm
7. PCB:
B1: C to C Type With Richtek E-Mark, for Twisted Cable, Tray
B2: C to C Type No E-Mark, for Twisted Cable, Tray
B3: C to C Type With Richtek E-Mark, for Coaxial Cable, Tray.
B4: C to C Type No E-Mark, for Coaxial Cable, Tray
B7: C to A Recept Type No E-Mark

ITEM	NAME	Q'TY	MATERIAL / FINISH
11	CAP	1	THERMOPLASTIC
10	DOWN Contact	10	COPPER ALLOY/SEE PRODUCT NUMBER
9	UP Contact	12	COPPER ALLOY/SEE PRODUCT NUMBER
8	BOTTOM SHELL	1	SEE TABLE B / Ni PLATED
7	TOP SHELL	1	SEE TABLE B / Ni PLATED
6	MYLAR	2	KAPTON
5	GROUND PLATED	1	STAINLESS STEEL / Ni PLATED
4	EMI SPRING	2	STAINLESS STEEL
3	SHELL	1	STAINLESS STEEL / Ni PLATED
2	HALF PRODUCT	2	THERMOPLASTIC/UL 94V-0 RATED
1	HOUSING	1	THERMOPLASTIC/UL 94V-0 RATED



SECTION B-B
SCALE 10:1

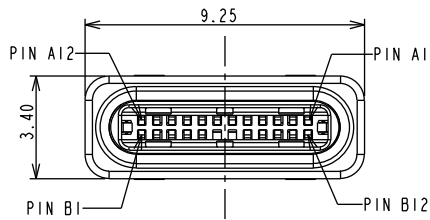
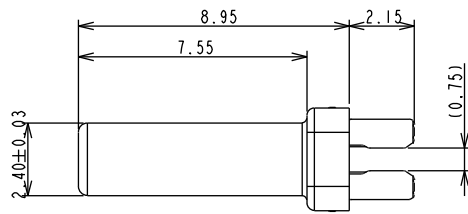
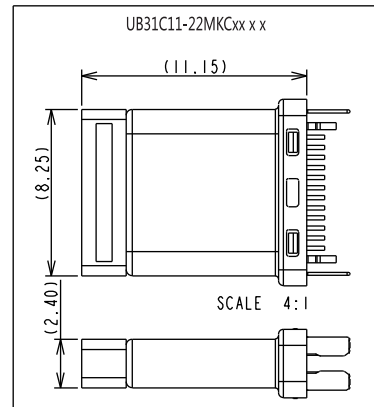
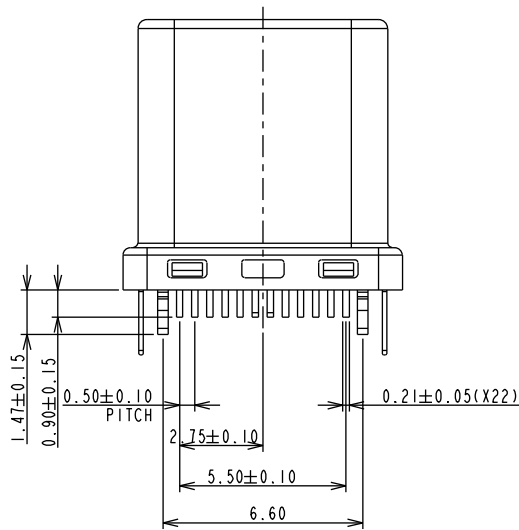
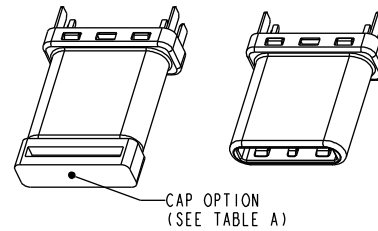


TABLE A(WITH CAP)



SCALE 4:1



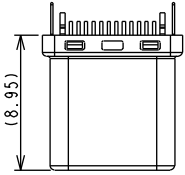
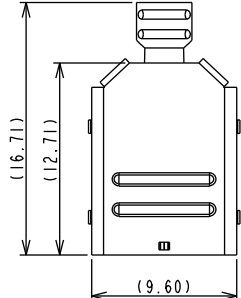
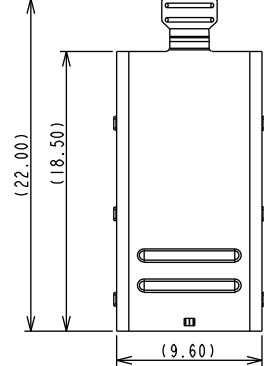
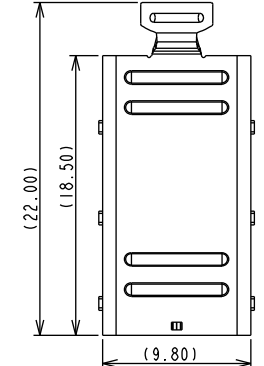
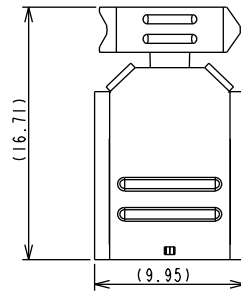
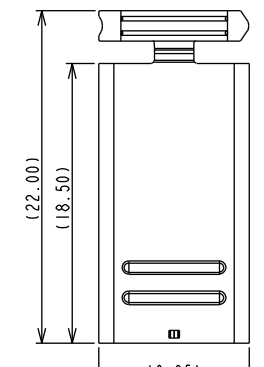
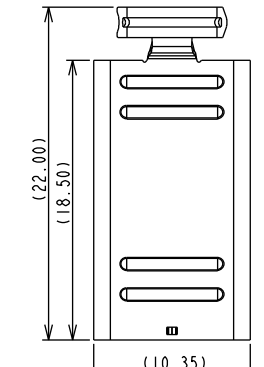
PIN ASSIGNMENT												
PIN NO	A12	A11	A10	A9	A8	A7	A6	A5	A4	A3	A2	A1
SIGNAL NAME	GND	RX2+	RX2-	VBUS	SBU1	D-	D+	CC	VBUS	TX1-	TX1+	GND
SIGNAL NAME	GND	TX2+	TX2-	VBUS	VCONN			SBU2	VBUS	RX1-	RX1+	GND
PIN NO	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12

TOLERANCES UNLESS OTHERWISE SPECIFIED
GENERAL X .1 .20 .38
Y .15 .25 .33
Z .15 .25 .33
ANGLES ° .5° .75° .8° .9° .1°

PANSTRONG COMPANY LTD.				DRAWN BY		TOMMY	
				CHECKED			
TITLE:				USB 3.1 TYPE C PLUG DRAWN SHELL TYPE FOR TWISTED OR COAXIAL CABLE			
PART NO:				UB31C11-xxMKHxxxxxx			
SCALE		6:1		REV		A	
UNIT		mm		APPROVED		DRAWING NO.	

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TABLE B(WITH TOP & BOTTOM SHELL)

	P/N: UB31C11-22Mxx xx x 0	P/N: UB31C11-22Mxx xx x 3	P/N: UB31C11-22Mxx xx x 4
 <p>PLUG USB-ASSEMBLY: UB31C11-22Mxx xx x x</p>	 <p>S-UB31C11-20X00 (STAINLESS, T=0.15)</p>	 <p>S-UB31C11-80X00 (STAINLESS, T=0.15)</p>	 <p>S-UB31C11-A0X00 (SPCC, T=0.25)</p>
	 <p>S-UB31C11-30X00 (STAINLESS, T=0.15)</p>	 <p>S-UB31C11-90X00 (STAINLESS, T=0.15)</p>	 <p>S-UB31C11-B0X00 (SPCC, T=0.25)</p>



PANSTRONG COMPANY LTD.

DRAWN BY TOMMY

CHECKED

APPROVED

DRAWING NO.

TITLE:

USB 3.1 TYPE C PLUG
DRAWN SHELL TYPE
FOR TWISTED OR COAXIAL CABLE

PART NO:

UB31C11-xxMKHxxxxxx

SCALE

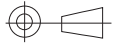
6:1

REV

A

UNIT

mm

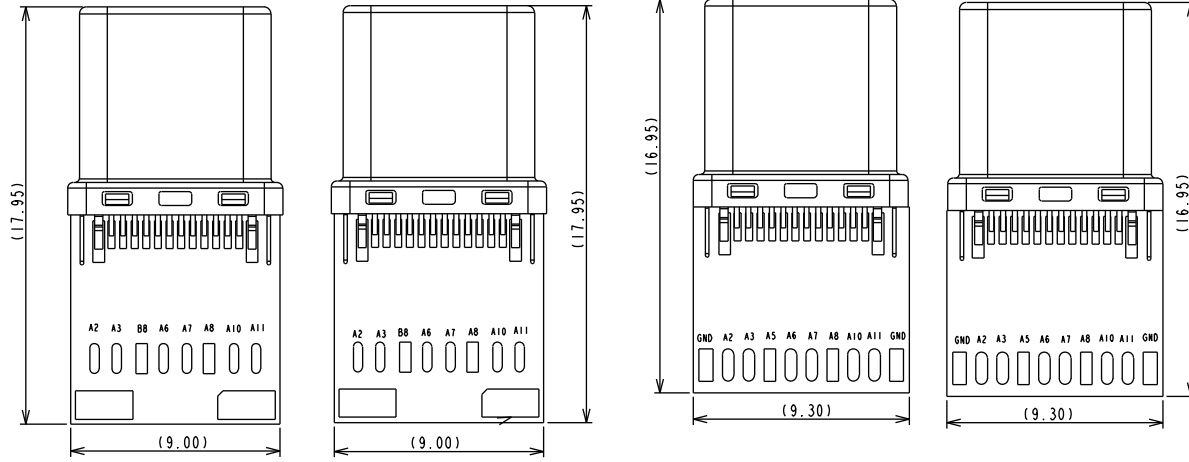


TOLERANCES UNLESS OTHERWISE SPECIFIED	
GENERAL	±0.38
F	±0.25
XX	±0.13
XXX	±0.05
ANGLES	
°	±0.5°
'	±1.0'

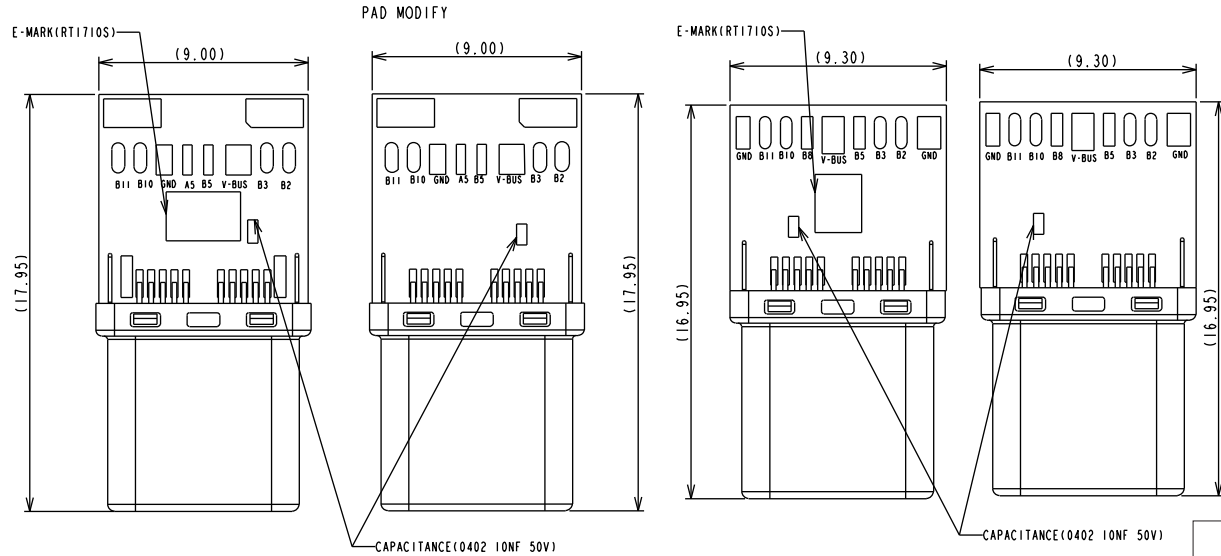
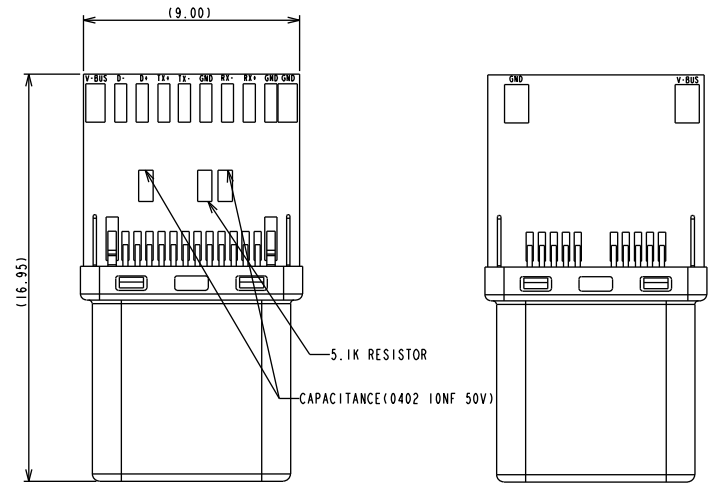
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P/N: UB31C11-xxMxx xx x x-B3
P/N: UB31C11-xxMxx xx x x-B4
(COAXIAL PCB)

P/N: UB31C11-xxMxx xx x x-B1
P/N: UB31C11-xxMxx xx x x-B2
(TWISTED PCB)



P/N: UB31C11-xxMxx xx x x-B7



PANSTRONG COMPANY LTD.				DRAWN BY		TOMMY	
				CHECKED			
TITLE: USB 3.1 TYPE C PLUG DRAWN SHELL TYPE FOR TWISTED OR COAXIAL CABLE				APPROVED			
				DRAWING NO.			
PART NO: UB31C11-xxMKHxxxxxx				UNIT	mm		
SCALE				/	REV	A	

TOLERANCES UNLESS OTHERWISE SPECIFIED	
GENERAL	±0.30
F	±0.25
H	±0.13
TTX	±0.05
ANGLES	
°	±0.5°
'	±1.0'
"	±1.0"