

REV.	DESCRIPTION	DATE
A	RELEASE	FEB. 14, 2018
B	ADD. LOGO	MAR. 02, 2018
C	PLATED MODIFY & ADD. PACKAGE	MAR. 27, 2018
D	DRAW. MODIFY	JUL. 25, 2018
E	DRAW. MODIFY	JUN. 10, 2019

### MATERIALS

- HOUSING : LCP (UL 94V-0), BLACK.
- TERMINAL : COPPER ALLOY, GOLD PLATED ON CONTACT AREA, GOLD FLASH PLATED ON SOLDER TAIL, NICKEL UNDERPLATED OVER ALL.
- DIP PLATE (GND) : STAINLESS STEEL, NICKEL 50u" MIN. PLATING.
- MID PLATE (GND) : STAINLESS STEEL, NICKEL 50u" MIN. PLATING.
- INNER SHELL : STAINLESS STEEL.
- OUTER SHELL : STAINLESS STEEL, NICKEL 50u" MIN. PLATING.

### SPECIFICATION

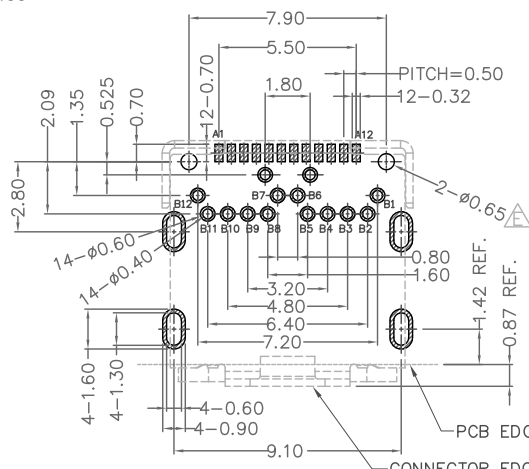
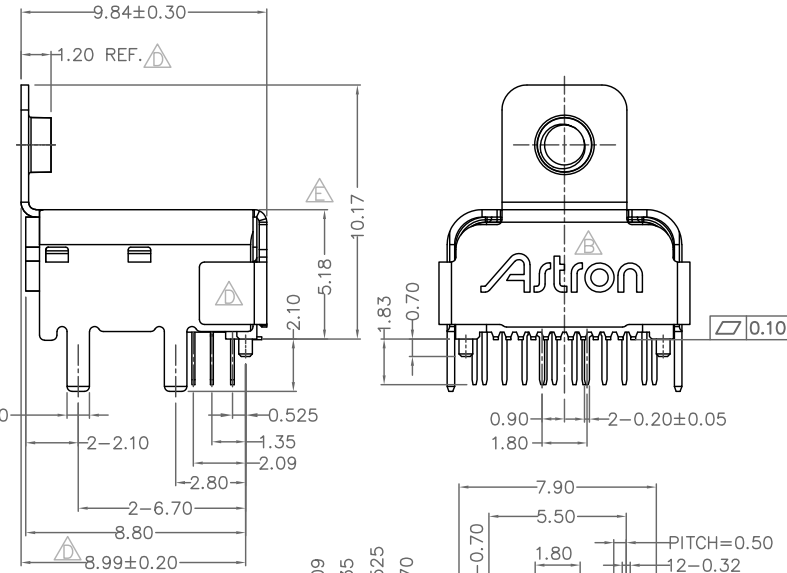
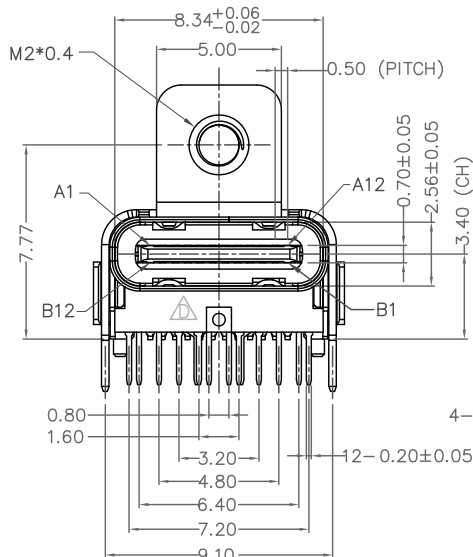
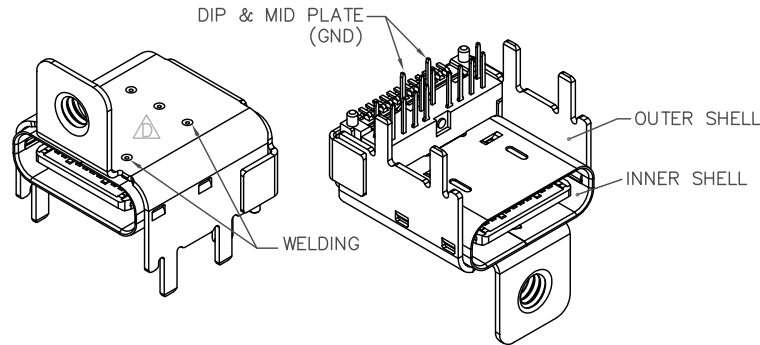
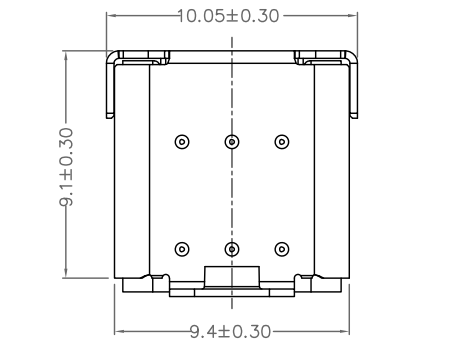
- CURRENT RATING :  
5A for VBUS (A4,A9,B4,B9)  
1.25A for Vconn PIN(B5)  
WITH RETURN PATH THROUGH THE CORRESPONDING GND PIN(A1,A12,B1,B12).  
0.25A for ALL OTHER PIN.
- DIELECTRIC WITHSTANDING VOLTAGE :  
100V AC R.M.S. FOR ONE MINUTE.
- INSULATION RESISTANCE : 100M OHMS MIN.
- CONTACT RESISTANCE : 40m OHMS MAX.
- OPERATING TEMPERATURE : -55°C TO +85°C.
- INSERTION FORCE : 5~20N.
- EXTRACTION FORCE : 8~20N.
- DURABILITY : 10,000 CYCLES.
- SOLDERING HEAT RESISTANCE REFLOW SOLDERING 260°C.

### PART NUMBER INFORMATION :

237FC24-XN109T-H

SERIES CODE SMT+DIP FEMALE USB  
 HALOGEN FREE  
 VARIATION CODE  
 CONTACT PLATING OPTION:  
 0 : GOLD FLASH  
 6 : 30u" GOLD

GENERAL TOLERANCE	DRAWER <i>pg</i>	<b>Astron</b> <sup>®</sup> <b>ASTRON TECHNOLOGY CORP.</b>
DIM. 0. = ±X.XX .0 = ±0.25 .00 = ±0.15 .000 = ±0.05	CHECK <i>FOE</i>	
ANG. .0° = ±3° .00° = ±1°	APP'D <i>ALAN</i>	NAME USB TYPE C FEMALE HIGH RISE : CH=3.40 mm SMT+DIP TYPE, WITH FLANGE
3rd ANGLE PROJECTION	PRODUCT SPEC. -	PART NO. 237FC24-XN109T-H
UNITS : mm [inch]	<b>CONFIDENTIAL</b>	
SCALE NONE SIZE A4	SHEET 1 OF 3 REV. E	T0123 C NO.

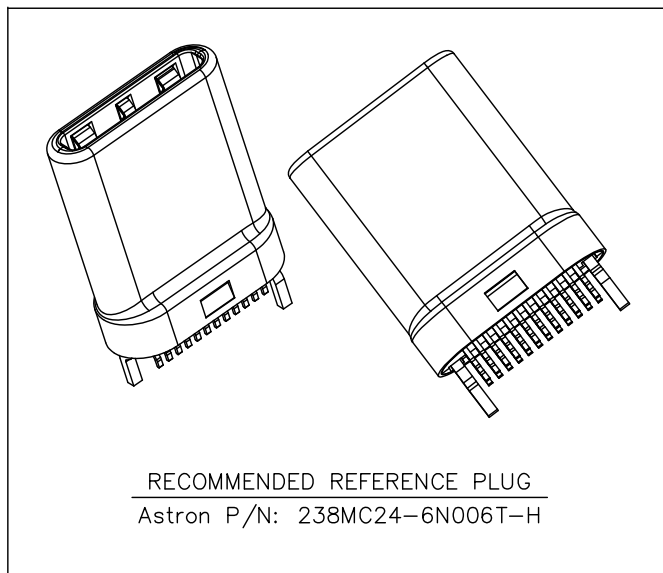


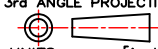
RECOMMENDED P.C.B LAYOUT  
TOLERANCE ±0.03mm (TOP VIEW)

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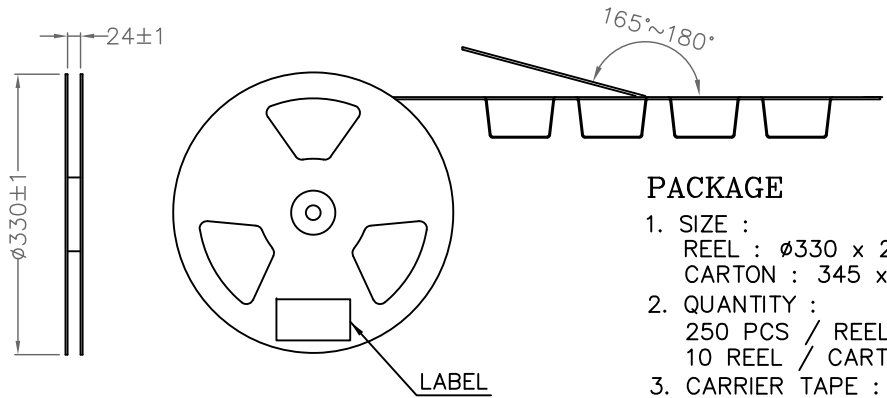
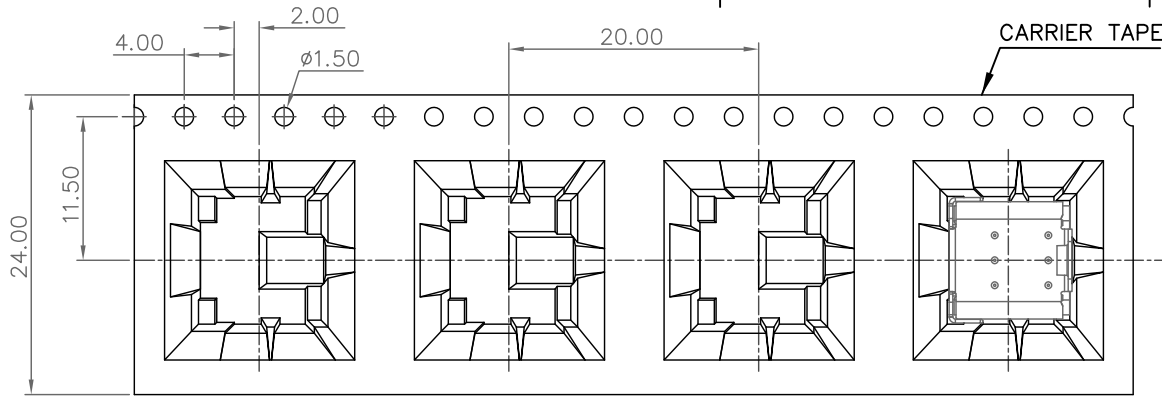
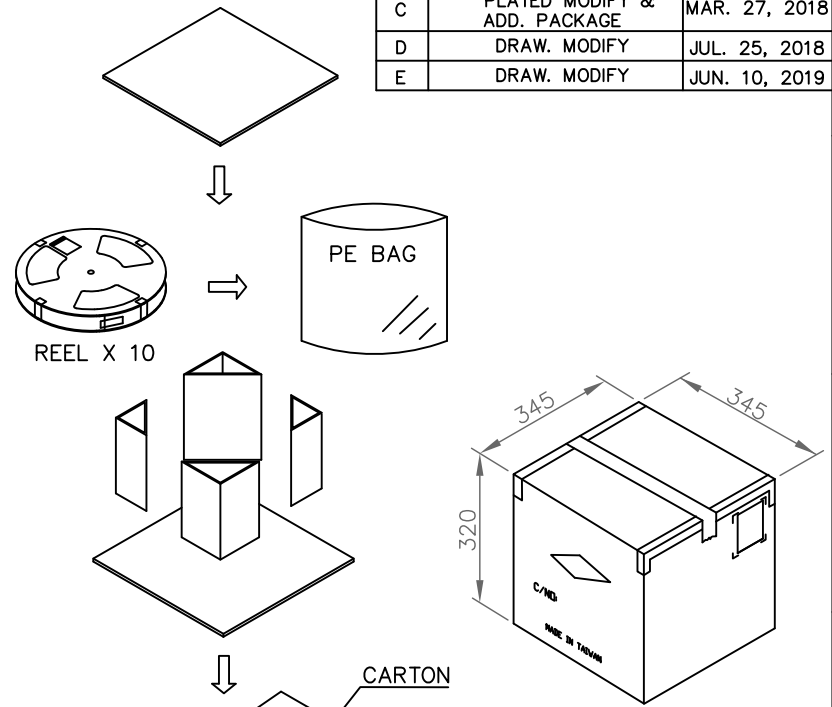
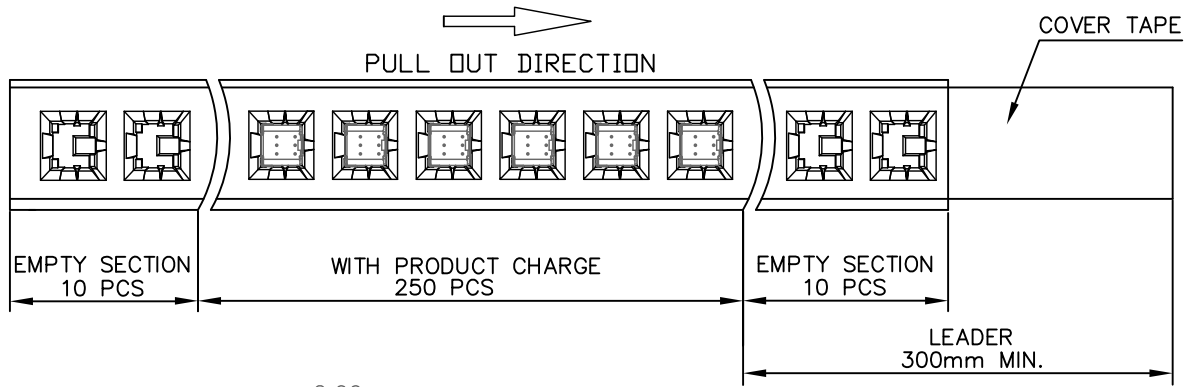
PIN ASSIGNMENTS

A12	A11	A10	A9	A8	A7	A6	A5	A4	A3	A2	A1
GND	Main Link 0+	Main Link 0-	VBUS	SBU1	USB2.0(D-) USB3(TX-)	USB2.0(D+) USB3(TX+)	CC1	VBUS	Main Link 2-	Main Link 2+	GND
GND	Main Link 1+	Main Link 1-	VBUS	VCONN	USB3(RX+)	USB3(RX-)	SBU2	VBUS	Main Link 3-	Main Link 3+	GND
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12



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ANG.	.0° = ±3° .00° = ±1°	APP'D <i>ALAN</i>	NAME USB TYPE C FEMALE HIGH RISE : CH=3.40 mm SMT+DIP TYPE, WITH FLANGE
3rd ANGLE PROJECTION 		PRODUCT SPEC. -	PART NO. 237FC24-XN109T-H
UNITS : mm [inch]		<b>CONFIDENTIAL</b>	
SCALE NONE	SIZE A4	SHEET 2 OF 3	REV. E
		T0123	C NO.

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**PACKAGE**

1. SIZE :  
REEL :  $\phi 330 \times 24$  mm  
CARTON :  $345 \times 345 \times 320$  mm (LxWxH)
2. QUANTITY :  
250 PCS / REEL  
10 REEL / CARTON = 2,500 PCS
3. CARRIER TAPE : PET, TRANSPARENT.
4. APPLICABLE DOCUMENTS : EIA-481-D

GENERAL TOLERANCE		DRAWER	<i>pg</i>	
DIM.	0. = $\pm X.XX$	CHECK	<i>JOE</i>	
	.0 = $\pm 0.25$	APP'D	<i>ALAN</i>	
	.00 = $\pm 0.15$	PACKAGE SPEC.	-	
	.000 = $\pm 0.05$			
ANG.	.0° = $\pm 3^\circ$	<b>CONFIDENTIAL</b>		
	.00° = $\pm 1'$			
3rd ANGLE PROJECTION		SHEET	REV.	PART NO. 237FC24-XN109T-H
UNITS : mm [inch]		3 OF 3	E	
SCALE	SIZE	SHEET		C NO.
NONE	A4	3 OF 3		T0123

**Astron®**  
**ASTRON TECHNOLOGY CORP.**

NAME  
USB TYPE C FEMALE  
HIGH RISE : CH=3.40 mm  
SMT+DIP TYPE, WITH FLANGE

PART NO. 237FC24-XN109T-H