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**ENGINEERING CHANGE NOTICE**

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	November 25, 2020	ECN20201125-00
	<b>Revision Number</b>	<b>SHEET</b>
	1	1 of 4

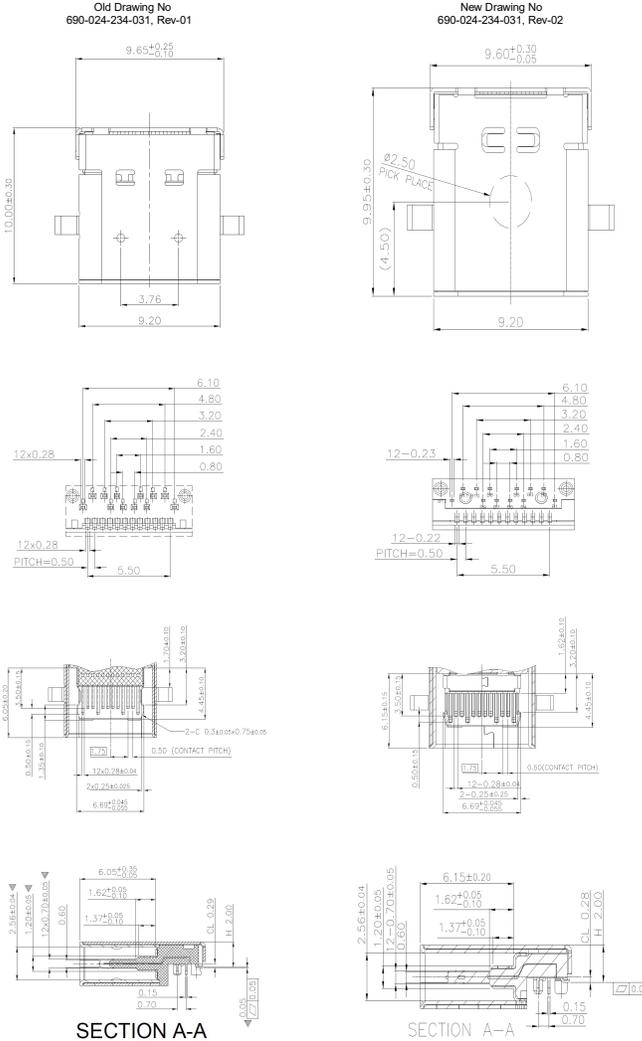
- CHANGE TYPE**
- CLASS I Customer notification and approval required prior to implementation
  - CLASS II Customer notification only, no approval required
  - CLASS III No customer notification required

**REASON OF CHANGE**

New Tooling for the USB 3.1 TYPE-C, 0.29 DIP FEMALE, Applicable for Part No: 690-024-234-031,690-024-334-031,690-024-634-031.

**DESCRIPTION OF CHANGE:**

1. Old tooling has worn out and need to be replaced by standard tooling.



2. Effective implementation to distribution is on November 25, 2020

Note:- The new revision is a complete plug and play. There is no change in form, fit and function.

**PARTIES AFFECTED**

- |  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> Customer     | <input type="checkbox"/> NORCOMP        | <input checked="" type="checkbox"/> ECA     |
| <input checked="" type="checkbox"/> Distributors | <input type="checkbox"/> MH             | <input checked="" type="checkbox"/> EDG     |
| <input type="checkbox"/> Suppliers               | <input checked="" type="checkbox"/> ETW | <input checked="" type="checkbox"/> EDAC UK |

**KEY TARGET DUE DATES IF CHANGE IS APPROVED TO PROCEED** (check if applicable and show target dates as known)

- |  |       |  |       |
|--|-------|--|-------|
| <input type="checkbox"/> Submit Quote    | _____ | <input type="checkbox"/> PPAF from Supplier      | _____ |
| <input type="checkbox"/> Prod. Trial Run | _____ | <input type="checkbox"/> MRD of Production Parts | _____ |
| <input type="checkbox"/> Run at Rate     | _____ |  |       |

ACKNOWLEDGEMENT FOR ECN INITIATION: (OPTIONALS)		STATUS
Tooling Rep _____ Mfg Eng Rep _____ Production Rep _____ Materials Rep _____ Quality Rep _____	Process Eng Rep _____ Facilities Rep _____ Sales Rep _____ Product Eng. Rep. _____ Purchasing Rep _____	<b>APPROVED</b> <input checked="" type="checkbox"/> <b>CCS CHANGE REQUEST #</b>
<b>APPROVALS FOR ECN INITIATION (REQUIRED)</b> President _____ Vice President <b>Bob Sakitkovski</b> <b>MINIMUM OF TWO SIGNATURES REQUIRED</b>		<b>REJECTED</b> Change REJECTED by: _____ Rejected Date: _____
Ronnie Sta. Monica Harsh Patel		

TOLERANCE UNLESS OTHERWISE SPECIFIED IN MM:

0.0	± 0.38	ANGLE	
0.00	± 0.25	0.	± 3°
0.000	± 0.05	0.0	± 1°

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ISSUE NUMBER	
ORIGINAL	①
REDRAWN	
P.M. NOV. 25/2020	②

NOTES:

MATERIAL:

HOUSING: LCP UL94 V-0  
CONTACT: COPPER ALLOY  
SHELL: SUS304-H,T=0.30±0.03mm  
SHILD:SUS304-H,T=0.12±0.03mm

ELECTRICAL:

CONTACT RESISTANCE: 40mΩ MAX  
CURRENT: 5A MIN FOR VBUS; 0.25A MIN FOR OTHER.  
VOLTAGE: 20 V MAX  
WITHSTANDING VOLTAGE: 100V AC  
INSULATION RESISTANCE: 100MΩ MIN

MECHANICAL:

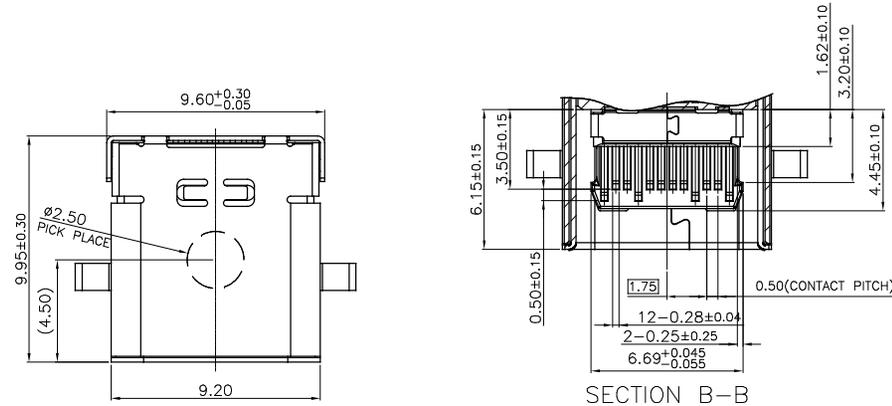
INSERTION: 5~20N.  
EXTRACTION: 8~20N.  
DURABILITY: 10,000 CYCLES

PLATING:

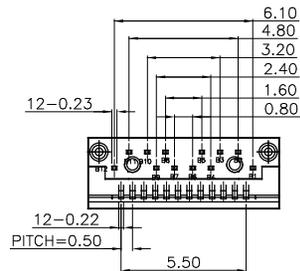
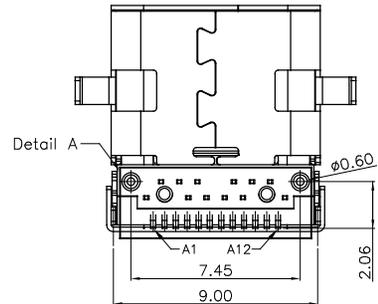
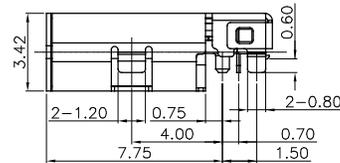
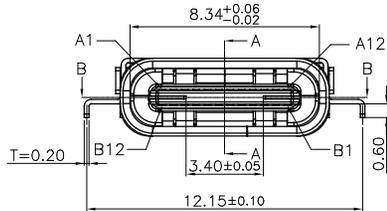
CONTACT: GOLD PLATED Min ON CONTACT AREA,100u"  
Min TIN (LEAD FREE) ON SOLDER AREA,  
SHELL: 50u"Min NICKEL PLATING ALL OVER.

ENVIRONMENTAL:

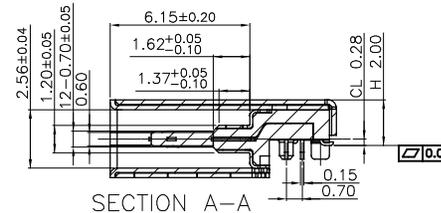
TEMPERATURE RANGE -55°C ~ +85°C



SECTION B-B



Detail A



SECTION A-A

PART NUMBERS	
GOLD FLASH	690-024-234-031
15u"GOLD	690-024-334-031
30u"GOLD	690-024-634-031

HYBRID MOUNT (THRU-HOLE AND SURFACE MOUNT)



THIS SERIES FULLY CONFORMS TO THE EUROPEAN UNION DIRECTIVES 2011/65/EU FOR RoHS COMPLIANCY.

USB 3.1 TYPE C, 0.29 DIP FEMALE



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CANADA

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ACAD REFERENCE NO.: 690-024-234-031	
DRAWN: N.SONDH	DATE: JUN.23/2015
CHECKED:	DATE:
PART NUMBER	
SEE TABLE	
DRAWING NUMBER	
690-024-234-031	ISSUE
	2

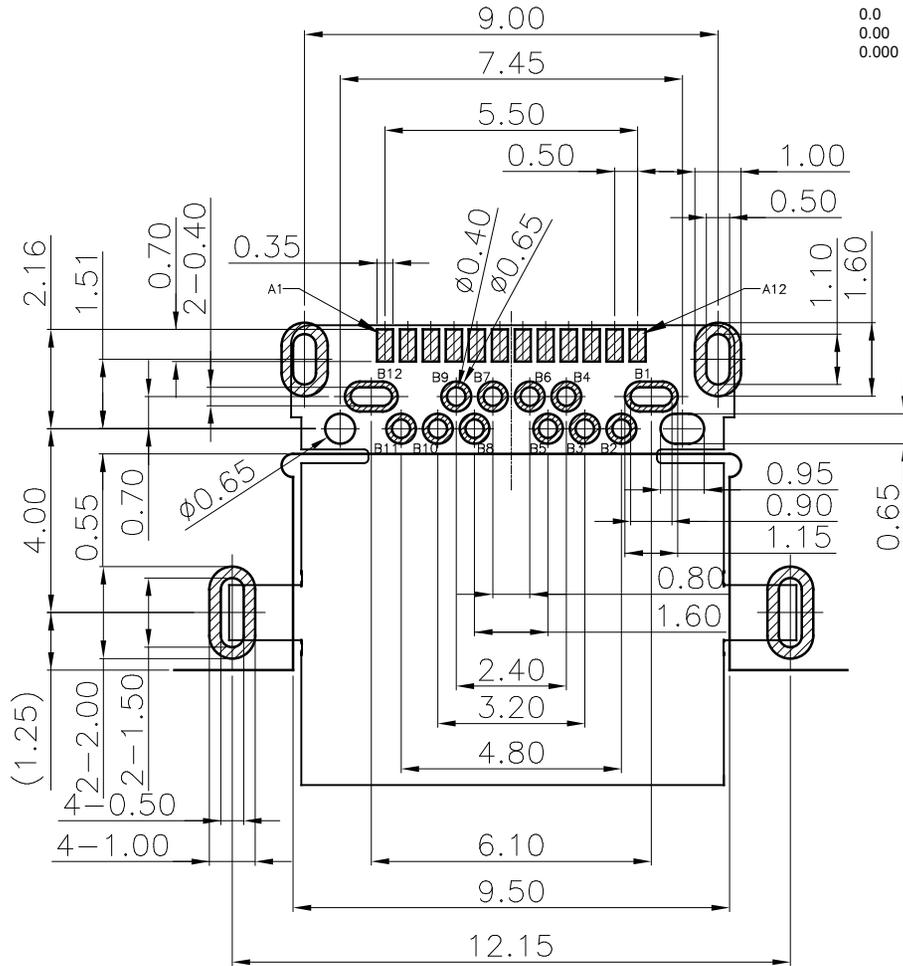
SHEET 1 OF 3

TOLERANCE UNLESS OTHERWISE SPECIFIED IN MM:

0.0 ± 0.38  
 0.00 ± 0.25  
 0.000 ± 0.05

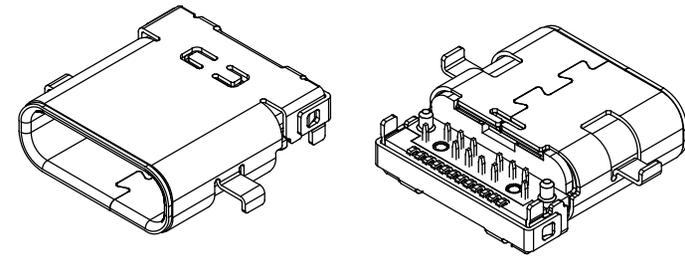
ANGLE  
 0. ± 3°  
 0.0 ± 1°

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RECOMMEND P.C.B LAYOUT(COMPONENT SIDE)

TOLERANCE FOR PCB LAYOUT IS ± 0.05  
 KEEP OUT AREA



USB TYPE-C FULL-FEATURED RECEPTACLE INTERFACE PIN ASSIGNMENTS

PIN	Signal Name	Description	PIN	Signal Name	Description
A1	GND	Ground return	B12	GND	Ground return
A2	SSTXp1	Positive half of first SuperSpeed TX differential pair	B11	SSRXp1	Positive half of first SuperSpeed RX differential pair
A3	SSTXn1	Negative half of first SuperSpeed TX differential pair	B10	SSRXn1	Negative half of first SuperSpeed RX differential pair
A4	VBUS	Bus Power	B9	VBUS	Bus Power
A5	CC1	Configuration Channel	B8	SBU2	Sideband Use (SBU)
A6	Dp1	Positive half of the USB 2.0 differential pair-Position 1	B7	Dn2	Negative half of the USB 2.0 differential pair-Position 2
A7	Dn1	Negative half of the USB 2.0 differential pair-Position 1	B6	Dp2	Positive half of the USB 2.0 differential pair-Position 2
A8	SBU1	Sideband Use (SBU)	B5	CC2	Configuraation Channel
A9	VBUS	Bus Power	B4	VBUS	Bus Power
A10	SSRXn2	Negative half of second SuperSpeed RX differential pair	B3	SSTXn2	Negative half of second SuperSpeed TX differential pair
A11	SSRXp2	Positive half of second SuperSpeed RX differential pair	B2	SSTXp2	Positive half of second SuperSpeed TX differential pair
A12	GND	Ground return	B1	GND	Ground return

HYBRID MOUNT (THRU-HOLE AND SURFACE MOUNT)



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USB 3.1 TYPE C, 0.29 DIP FEMALE



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ACAD REFERENCE NO.: 690-024-234-031

DRAWN: N.SONDH DATE: JUN.24/2015

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PART NUMBER

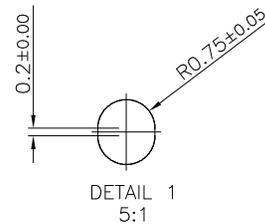
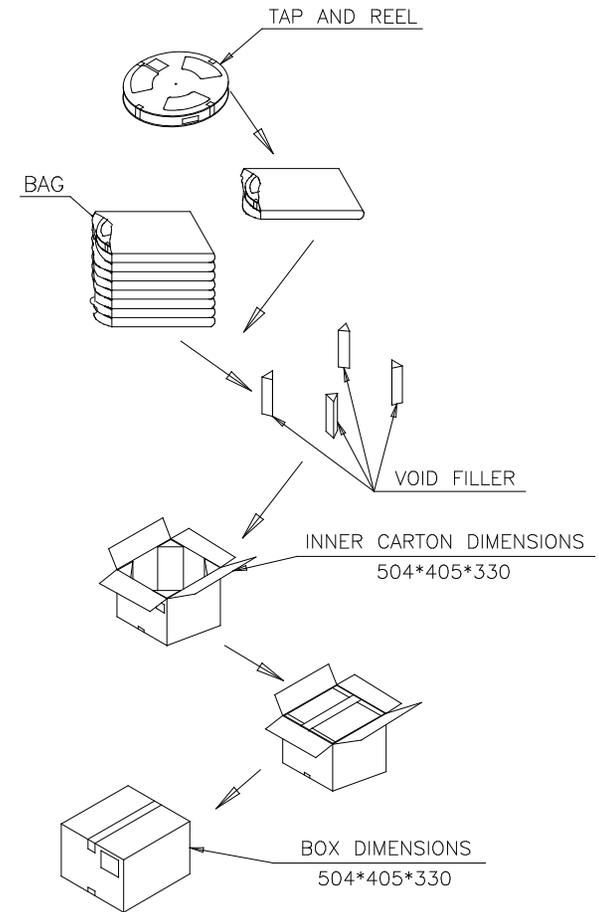
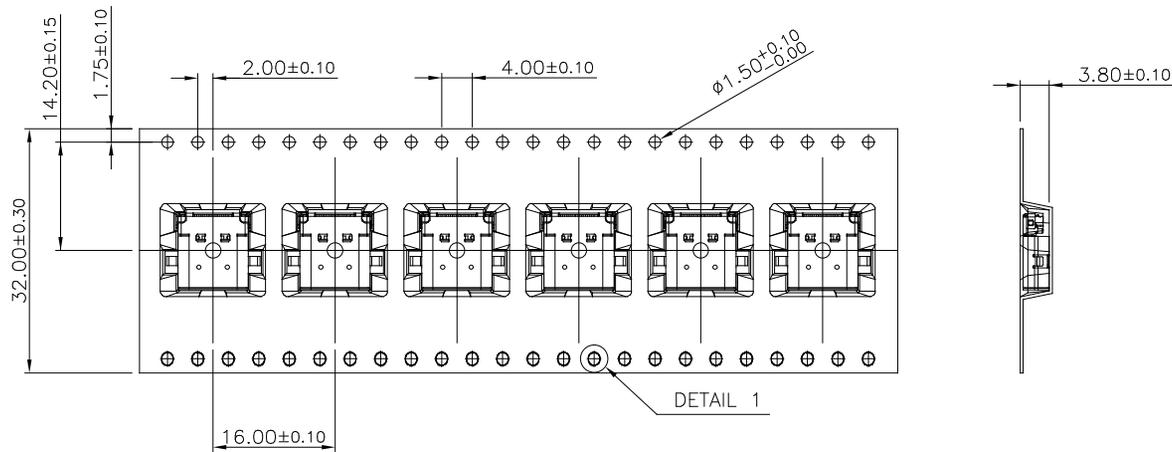
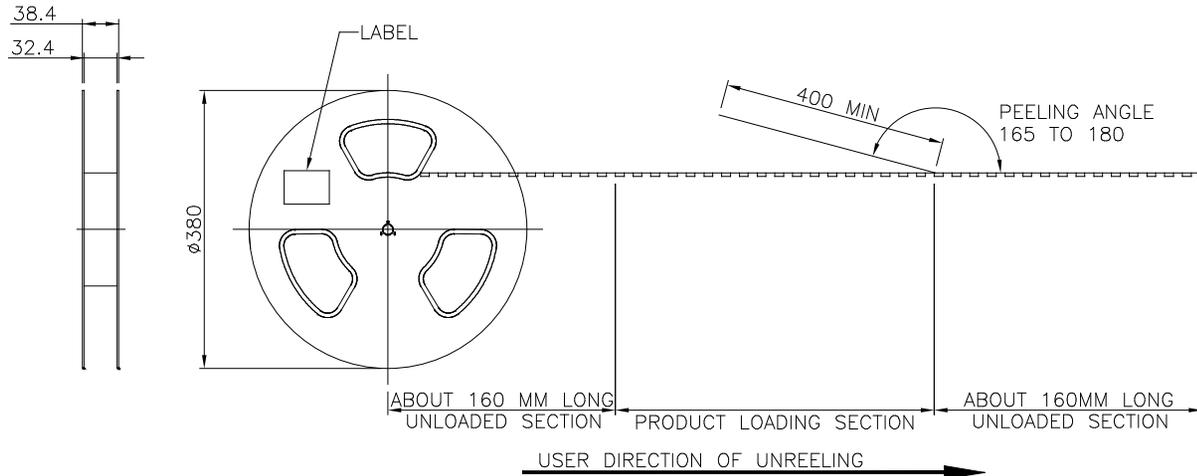
SEE TABLE

SHEET 2 OF 3

DRAWING NUMBER  
 690-024-234-031

ISSUE  
 2

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NOTES:  
MATERIAL:

- BOX: FIBERBOARD, CORRUGATED, DOUBLE WALL.
- TAPE: POLYSTYRENES, HEAT-RESISTANCE TEMPERATURE: 120°C, BLACK COLOR.
- REEL: POLYSTYRENES, HEAT-RESISTANCE TEMPERATURE: 70°C, BLUE COLOR.
- BAG: POLYSTYRENES, HEAT-RESISTANCE TEMPERATURE: 100°C.
- PEELING STRENGTH: 0.1 TO 1.3 N (10 TO 130 GRAMS).
- PEELING SPEED: 300mm / min
- EACH BAG SHALL BE INCLUDED DESICCANT.



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USB 3.1 TYPE C, 0.29 DIP FEMALE



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SHEET 3 OF 3

DRAWING NUMBER

690-024-234-031

ISSUE

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