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ENGINEERING CHANGE NOTICE

Originator:	Yu Zhang	Date:	May 17, 2018	Document Number:	ECN20180503-00
Phone No.:	(416) 754-3322 ext.234	Revision Number:	2	SHEET:	1 of 5
Email Address:	yzhang@edac.net				
Department:	ENGINEERING				

CHANGE TYPE

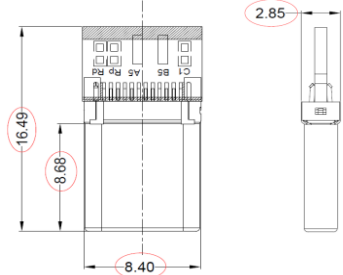
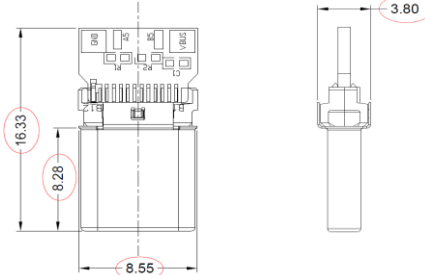
- CLASS I Customer notification and approval required prior to implementation
- CLASS II Customer notification only, no approval required
- CLASS III No customer notification required

REASON OF CHANGE

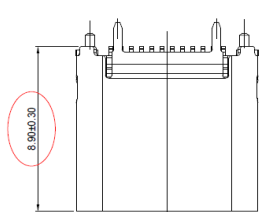
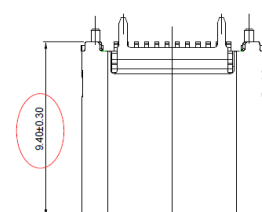
Discontinuance / End of Life of 690-024-260-900, 690-024-360-900, 690-024-660-900, 690-024-294-031, 690-024-394-031, 690-024-694-031.

DESCRIPTION OF CHANGE:

1

<p>Part No. 690-024-260-900 (Obsolete) 690-024-360-900 (Obsolete) 690-024-660-900 (Obsolete)</p> 	Replaced by	<p>Part No. 690-024-260-432 690-024-360-432 690-024-660-432</p> 
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2

<p>Part No. 690-024-294-031 (Obsolete) 690-024-394-031 (Obsolete) 690-024-694-031 (Obsolete)</p> 	Replaced by	<p>Part No. 690-024-294T331 690-024-394T331 690-024-694T331</p> 
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3. Effective implementation to distribution is on **May 17th, 2018**

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)

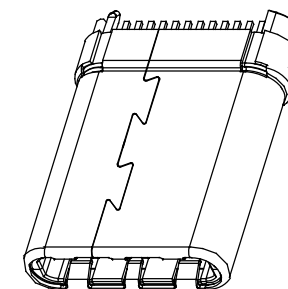
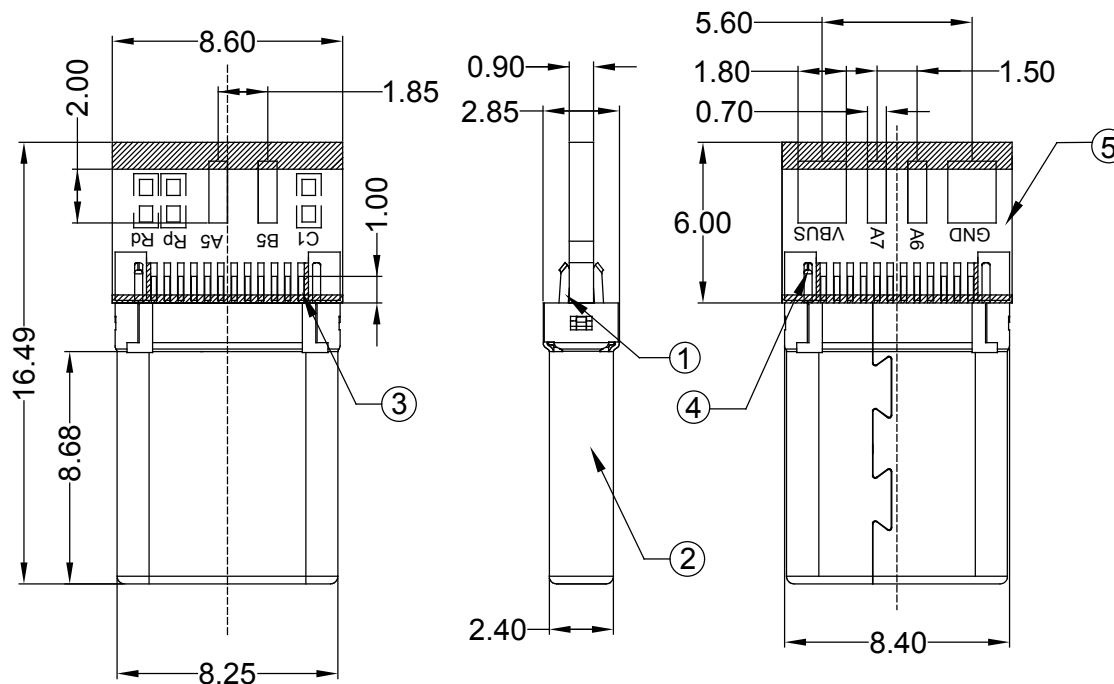
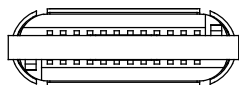
- | | | | |
|--|-------|--|-------|
| <input type="checkbox"/> Submit Quote | _____ | <input type="checkbox"/> PPAP from Supplier | _____ |
| <input type="checkbox"/> Prod. Trial Run | _____ | <input type="checkbox"/> MRD of Production Parts | _____ |
| <input type="checkbox"/> Run at Rate | _____ |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

<p>ACKNOWLEDGEMENT FOR ECN INITIATION: (OPTIONALS)</p> <table border="0"> <tr> <td><input type="checkbox"/> Tooling Rep</td> <td>_____</td> <td><input type="checkbox"/> Process Eng Rep</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/> Mfg Eng Rep</td> <td>_____</td> <td><input type="checkbox"/> Facilities Rep</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/> Production Rep</td> <td>_____</td> <td><input type="checkbox"/> Sales Rep.</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/> Materials Rep</td> <td>_____</td> <td><input type="checkbox"/> Product Eng. Rep.</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/> Quality Rep</td> <td>_____</td> <td><input type="checkbox"/> Purchasing Rep</td> <td>_____</td> </tr> </table>		<input type="checkbox"/> Tooling Rep	_____	<input type="checkbox"/> Process Eng Rep	_____	<input type="checkbox"/> Mfg Eng Rep	_____	<input type="checkbox"/> Facilities Rep	_____	<input type="checkbox"/> Production Rep	_____	<input type="checkbox"/> Sales Rep.	_____	<input type="checkbox"/> Materials Rep	_____	<input type="checkbox"/> Product Eng. Rep.	_____	<input type="checkbox"/> Quality Rep	_____	<input type="checkbox"/> Purchasing Rep	_____	<p>STATUS</p> <p>APPROVED <input type="checkbox"/></p> <p>CCS CHANGE REQUEST # _____</p>
<input type="checkbox"/> Tooling Rep	_____	<input type="checkbox"/> Process Eng Rep	_____																			
<input type="checkbox"/> Mfg Eng Rep	_____	<input type="checkbox"/> Facilities Rep	_____																			
<input type="checkbox"/> Production Rep	_____	<input type="checkbox"/> Sales Rep.	_____																			
<input type="checkbox"/> Materials Rep	_____	<input type="checkbox"/> Product Eng. Rep.	_____																			
<input type="checkbox"/> Quality Rep	_____	<input type="checkbox"/> Purchasing Rep	_____																			
<p>APPROVALS FOR ECN INITIATION (REQUIRED)</p> <p>President _____</p> <p>Vice President Bob Sakitkovski</p> <p>Engineering Manager Ronnie Sta. Monica</p> <p>Mechanical Engineer Yu Zhang</p> <p>MINIMUM OF TWO SIGNATURES REQUIRED</p>		<p>REJECTED <input type="checkbox"/></p> <p>Change REJECTED by: _____</p> <p>Rejected Date: _____</p>																				

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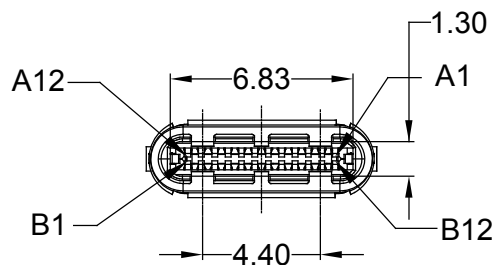
TOLERANCE UNLESS OTHERWISE SPECIFIED	
.X	±0.50
.X	±0.30
.XX	±0.20
.XXX	±0.10



NOTES:

- CURRENT RATING: 3A
- CONTACT RESISTANCE: 40mΩ MAX.
- INSULATOR RESISTANCE: 100MΩ min. AT 100V DC
- SOLDERABILITY: 250±5°C, 5±0.5s
- TOTAL MATING FORCE: 2.04kgf (20N) MAX.
- TOTAL UNMATING FORCE: 0.81kgf (8N), 2.04kgf(20N) MAX.
- MATING CYCLE: 10000 CYCLES min.

PART NUMBER	CONTACT PLATING
690-024-260-432	GOLD FLASH PLATING
690-024-360-432	15u" GOLD PLATING
690-024-660-432	30u" GOLD PLATING



USB 3.1, TYPE C, VERTICAL, MALE

ACAD REFERENCE NO.: 690-024-X60-432

DRAWN: Y.Z DATE: MAY.07/2018

CHECKED: DATE:

SCALE: (IN C.A.D. 1:1) SHEET 1 OF 2

DRAWING NUMBER: 690-024-X60-432

ISSUE

PART NUMBER: SEE TABLE

1

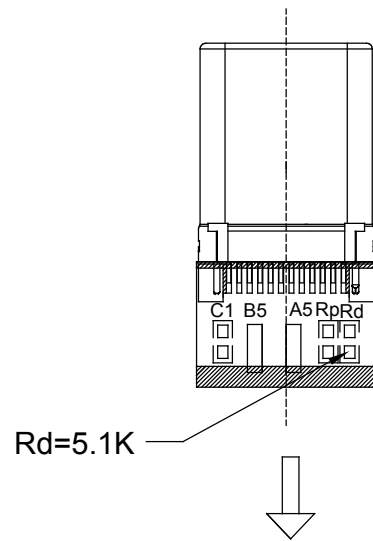
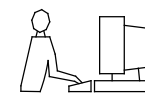


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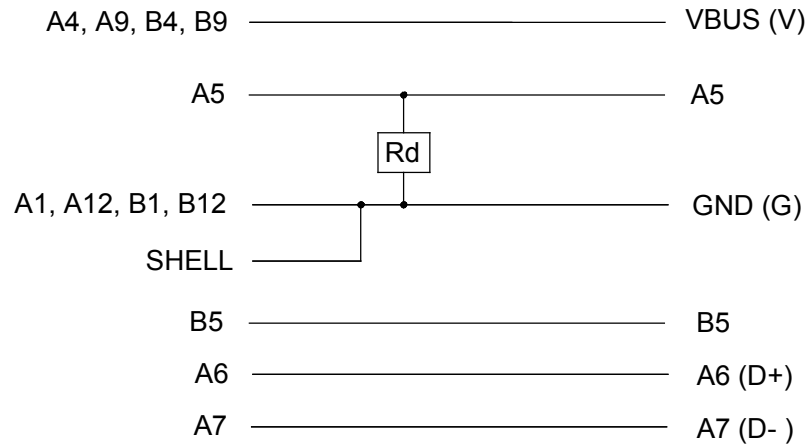


PIN ASSIGNMENT

5	PCB	1	----
4	GND LATCH	1	STAINLESS STEEL, NICKEL PLATING OVERALL, TABE WITH LEAD FREE TIN ALLOY
3	CONTACT	24	COPPER ALLOY NICKEL UNDERPLATING OVERALL, GOLD PLATING AT CONTACT AREA. LEAD FREE TIN ALLOY AT TERMINATION.
2	SHELL	1	STAINLESS STEEL
1	HOUSING	2	LCP, BLACK, UL 94V-0
No.	DESCRIPTION	QTY	MATERIAL & PLATING

CONN 1

CONN 2



A12	A11	A10	A9	A8	A7	A6	A5	A4	A3	A2	A1
GND	RX2+	RX2-	Vbus	SBU1	D-	D+	CC	Vbus	TX1-	TX1+	GND
GND	TX2+	TX2-	Vbus	Vconn			SBU2	Vbus	RX1-	RX1+	GND
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12

USB 3.1 TYPE C, VERTICAL, MALE

ACAD REFERENCE NO.: 690-024-X60-432

DRAWN: Y.Z

DATE: MAY.07/2018

CHECKED:

DATE:

SCALE: (IN C.A.D. 1:1)

SHEET 2 OF 2

DRAWING NUMBER: 690-024-X60-432

ISSUE

PART NUMBER: SEE TABLE

1



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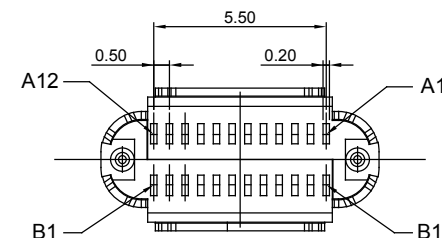
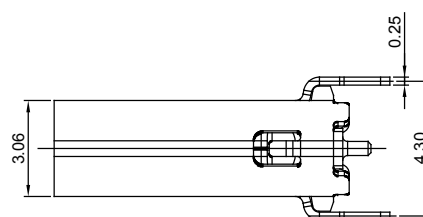
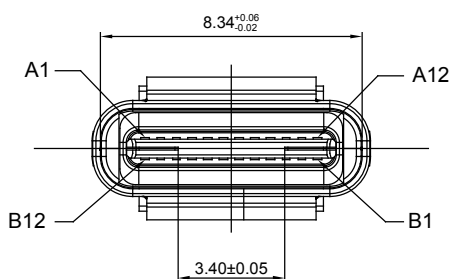
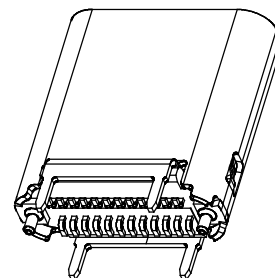
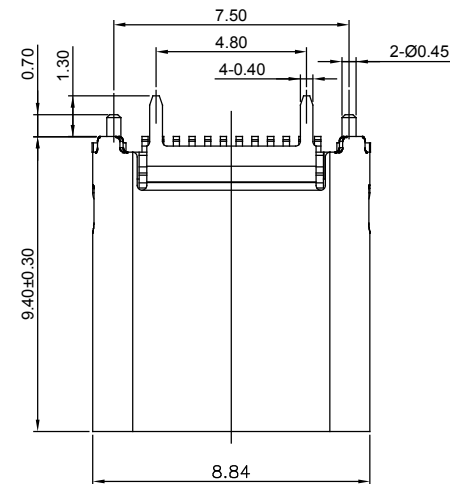
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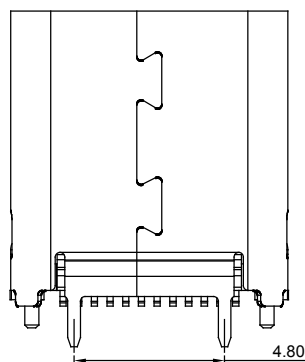
TOLERANCE UNLESS OTHERWISE SPECIFIED	
X.	±0.50
X.X	±0.30
X.XX	±0.20
X.XXX	±0.10



NOTES:

- INSULATOR: HIGH TEMPERATURE PLASTIC, UL 94 V-0, BLACK COLOR
- CONTACT: COPPER ALLOY, T=0.15mm
SELECTIVE GOLD PLATING ALL OVER 50u" Min NICKEL 80u" min. MATTE TIN ALL OVER 50u" Min. NICKEL ON SOLDER AREA
- SHELL: STAINLESS STEEL, T=0.20mm
50u" min. NICKEL ALL OVER
- CONTACT RESISTANCE: 40mΩ Max. FOR INITIAL. 10mΩ CHANGE AFTER TEST.
MEASURE AT 20mV, 100mA.
- CONTACT CURRENT RATING: 5A FOR VBUS PIN; 1.25A FOR VCONN PIN.
- DIELECTRIC WITHSTANDING VOLTAGE: 100V AC R.M.S.
- INSULATION RESISTANCE: 100MΩ Min.
- OPERATING TEMPERATURE: -40°C ~ 85°C
- MATING FORCE: 5~20 N.
- UNMATING FORCE: 6~20N AFTER TEST.

PART NUMBER	CONTACT PLATING
690-024-294T331	GOLD FLASH PLATING
690-024-394T331	15u" GOLD PLATING
690-024-694T331	30u" GOLD PLATING



USB 3.1, TYPE C, FEMALE, VERTICAL, SMT

ACAD REFERENCE NO.: 690-024-X94T331

DRAWN: Y.Z DATE: MAY.01/2018

CHECKED: DATE:

SCALE: (IN C.A.D. 1:1) SHEET 1 OF 2

DRAWING NUMBER: 690-024-X94T331

ISSUE

PART NUMBER: SEE TABLE

1



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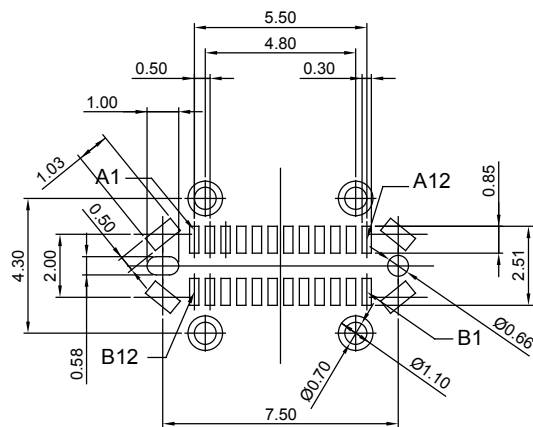
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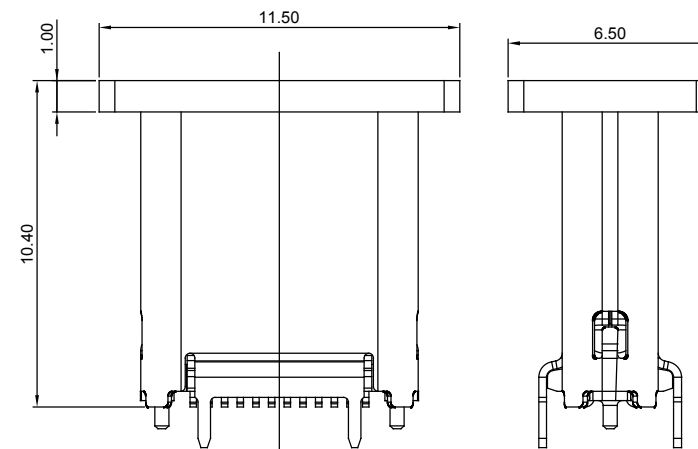
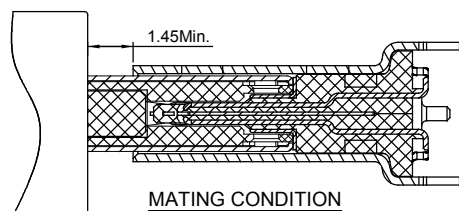
TOLERANCE UNLESS OTHERWISE SPECIFIED	
X.	±0.50
X.X	±0.30
X.XX	±0.20
X.XXX	±0.10



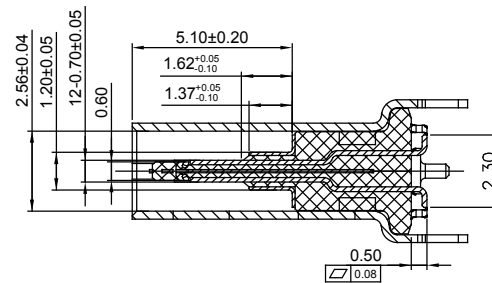
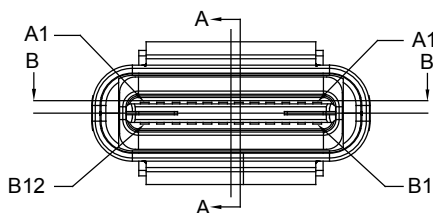
RECOMMEND P.C.B LAYOUT (COMPONENT SIDE)

TOLERANCE FOR PCB LAYOUT IS ± 0.05

KEEP OUT AREA

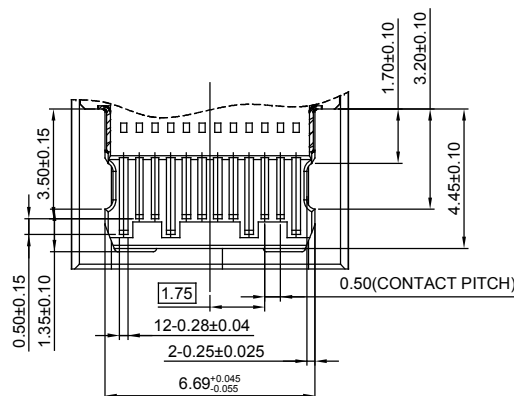


INCLUDE THE DIAGRAMS OF CAP



SECTION A-A

PIN	SIGNAL NAME	MATING SEQUENCE	PIN	SIGNAL NAME	MATING SEQUENCE
A1	GND	FIRST	B12	GND	FIRST
A2	SSTXp1	SECOND	B11	SSRXp1	SECOND
A3	SSTXn1	SECOND	B10	SSRXn1	SECOND
A4	V _{BUS}	FIRST	B9	V _{BUS}	FIRST
A5	CC1	SECOND	B8	SBU2	SECOND
A6	Dp1	SECOND	B7	Dn2	SECOND
A7	Dn1	SECOND	B6	Dp2	SECOND
A8	SBU1	SECOND	B5	CC2	SECOND
A9	V _{BUS}	FIRST	B4	V _{BUS}	FIRST
A10	SSRXn2	SECOND	B3	SSTXn2	SECOND
A11	SSRXp2	SECOND	B2	SSTXp2	SECOND
A12	GND	FIRST	B1	GND	FIRST
SHELL		GND	SHELL		GND



SECTION B-B

USB 3.1, TYPE C, FEMALE, VERTICAL, SMT

ACAD REFERENCE NO.: 690-024-X94T331

DRAWN: Y.Z DATE: MAY.01/2018

CHECKED: DATE:

SCALE: (IN C.A.D. 1:1) SHEET 2 OF 2

DRAWING NUMBER: 690-024-X94T331

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