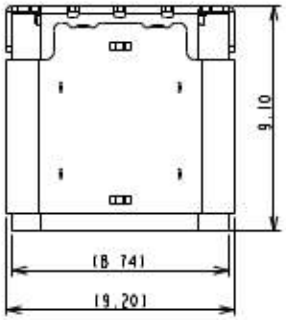
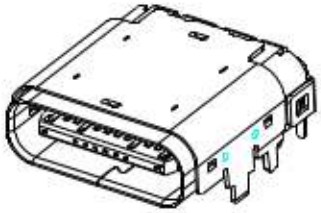
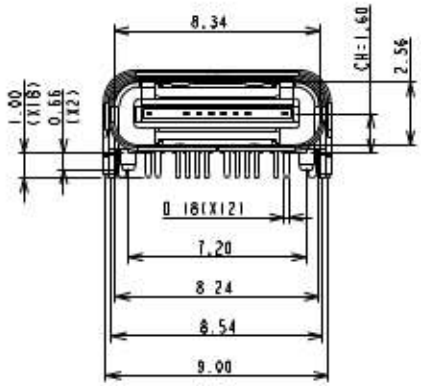
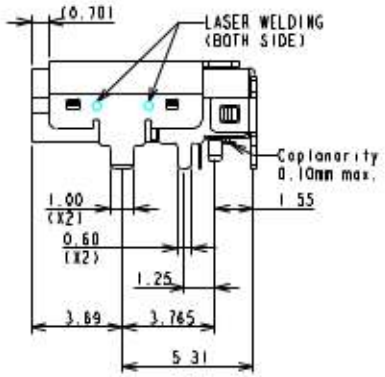
HALOGEN FREE

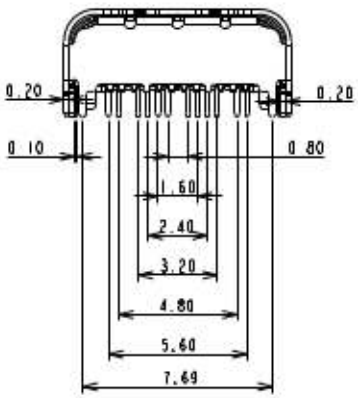
REV	ECR	DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED
X1	SZECR15028	NEW RELEASE PER NPR14106	09/19/15'	Rui Su	Alan.Tsai	











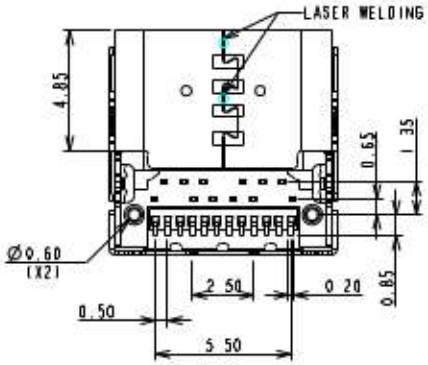


TABLE A: PRODUCT NUMBERING CODE

C-BR25 - A K X X

① ②③④⑤

1.CONNECTOR TYPE:
BR25: USB TYPE-C RECEP. R/A CONN

2.NO. OF POSITION:
A: 24 POSITIONS.

3.COLOR OF INSULATOR:
K BLACK

4.PLATING OF CONTACT
1: GOLD FLASH ON CONTACT AREA.
5: Au 30u" PLATING ON CONTACT AREA

5.PLATING OF FRONT SHELL
3: SOLDERING NICKEL

TABLE B: PIN ASSIGNMENT

PIN NO.	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
SIGNAL NAME	GND	SSTXp1	SSTXn1	VBUS	CC1	Dp1	Dn1	SBU1	VBUS	SSRXn2	SSRXp2	GND
PIN NO.	B12	B11	B10	B9	B8	B7	B6	B5	B4	B3	B2	B1
SIGNAL NAME	GND	SSRXp1	SSRXn1	VBUS	SBU2	Dn2	Dp2	CC2	VBUS	SSTXn2	SSTXp2	GND

ITEM	NAME	Q'TY	PART #	MATERIAL / FINISH
6	EMI RING	2	H-BR25-EQXXX	METAL / Ni PLATED
5	GROUND PLATE	1	H-BR25-GDXXX	METAL / Ni PLATED
4	SHELL	2	S-BR25-XDXXX	METAL / Ni PLATED
3	DOWN-CONTACT	12	T-BR25-20XXX	COPPER ALLOY / Au PLATED
2	UP-CONTACT	12	T-BR25-10XXX	COPPER ALLOY / Au PLATED
1	HALF PRODUCT	2	BR25-AKXXX	HI-TEMP. G.F. UL94V-0

DRAWN	Rui Su	09/19/15'
DESIGN	Rui.Su	09/19/15'
CHECKED	AIR CHEN	09/19/15'
APPROVED		DATE
SCALE	1:1	
SHEET	1 OF 2	
UNIT	mm	

CnC Tech, LLC

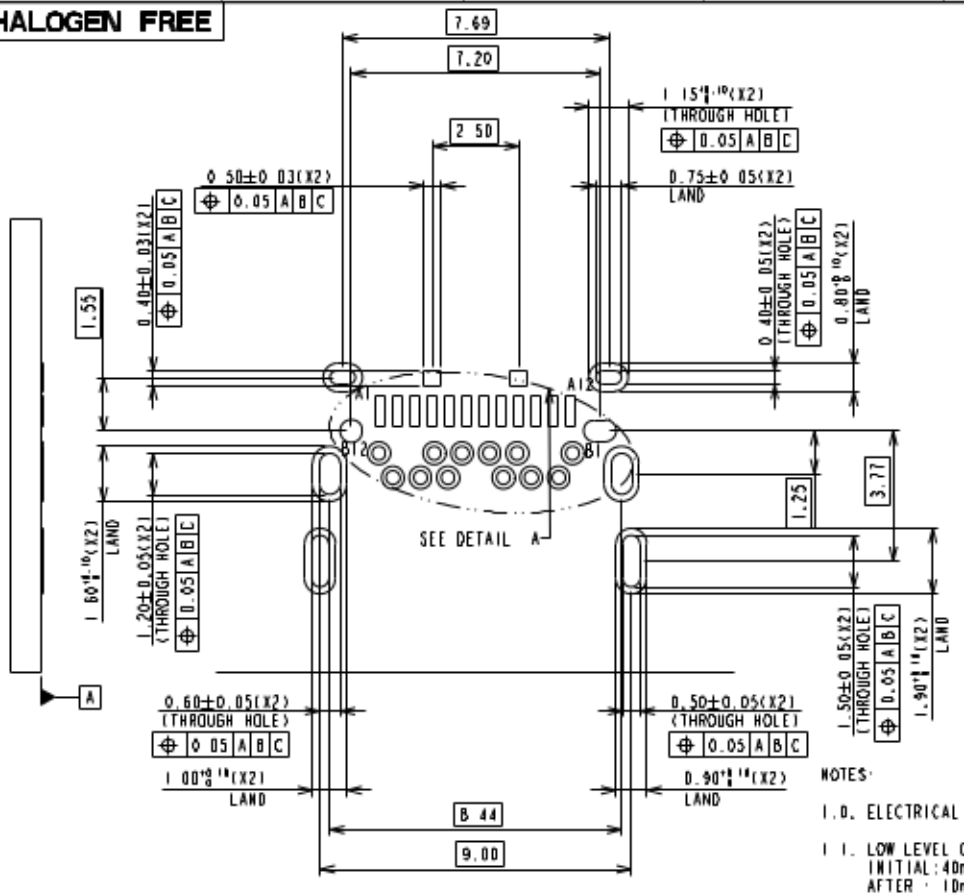
TITLE: USB TYPE - C 3.1 10Gbps CONN RECEPTACLE - TOP MOUNT TYPE

C-BR25-AK53

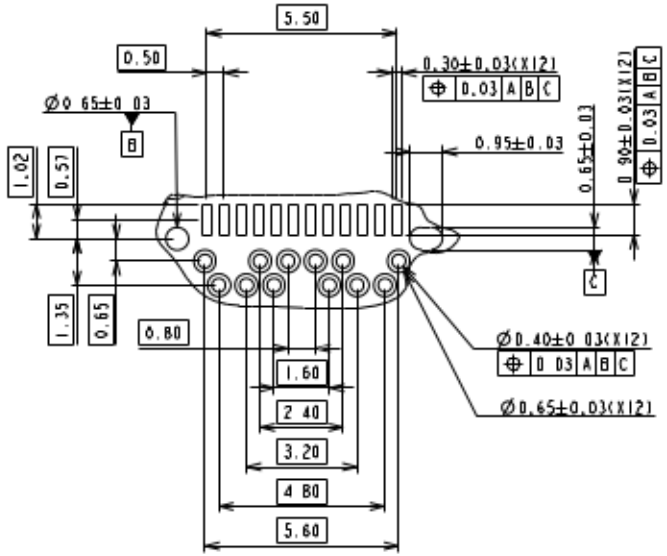
SERIES: BR25 SERIES — SIZE: A3

DWG NO.: BR25-00-05 — REV: X1

HALOGEN FREE

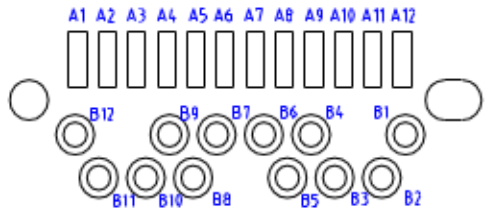


RECOMMENTED PCB LAYOUT
THICKNESS IS 0.90 mm
TOLERANCE±0.05



DETAIL A
SCALE 7:1

TABLE C PIN NO (TOP VIEW)



NOTES:

1.0. ELECTRICAL CHARACTERISTICS:

1.1. LOW LEVEL CONTACT RESISTANCE
INITIAL: 40mΩ FOR ALL CONTACT MAX.
AFTER · 10mΩ MAX CHANGE

1.2. DIELECTRIC WITHSTANDING VOLTAGE:
100 VAC FOR 1 MINUTE SEA LEVEL

1.3. INSULATION RESISTANCE:
100MΩ MIN.

1.4.CURRENT RATING:
VBUS AND GND CONTACTS RATED AT 1.25A EA.
PARALLELED FOR A TOTAL OF 5A

2.0. MECHANICAL CHARACTERISTICS:

2.1. INSERTION FORCE: 20N MAX

2.2 EXTRACTION FORCE 1-1000 CYCLES 8N MIN 20 N MAX.
EXTRACTION FORCE 1001-10000 CYCLES 6N MIN. 20 N MAX.

2.3. DURABILITY : 10,000 CYCLES

3.0 OPERATING TEMPERATURE: -55°C TO +85°

DRAWN	Rui.Su	DATE	09/19/15
DESIGN	Rui.Su	DATE	09/19/15
CHECKED	AIR CHEN	DATE	09/19/15
APPROVED		DATE	
SCALE	7:1		
SHEET	2 OF 2		
UNIT	mm		

CnC Tech, LLC

TITLE: USB TYPE - C 3.1 (10Gbps) CONN RECEPTACLE - TOP MOUNT TYPE

C-BR25-AK53

SERIES

SIZE A3

DWG NO.

REV X1