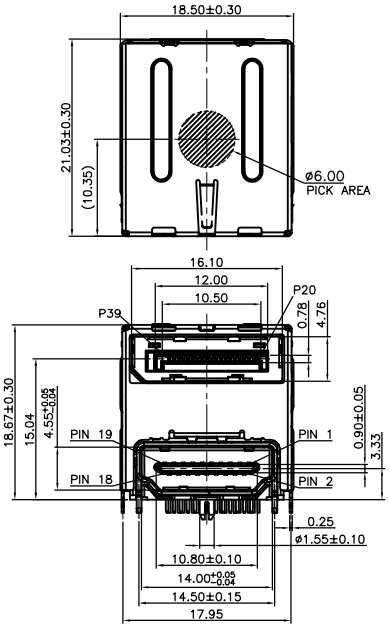
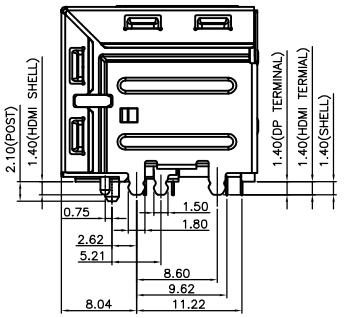
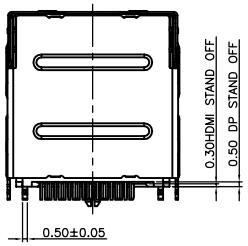
RoHS Compliant

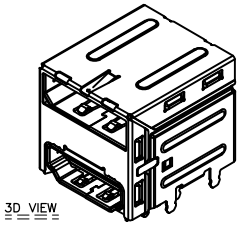
REVISIONS			
REV.	DESCRIPTION	DATE	DESIGN

NOTES:
1.MATERIAL:
 1-1.DISPLAYPORT
  1-1-1.HOUSING: LCP,UL94V-0,BLACK;
  1-1-2.COVER: LCP,UL94V-0,BLACK;
  1-1-3.CONTACTS: BRASS,T=0.20mm;
  1-1-4.FRONT SHELL: STAINLESS STEEL, T=0.20mm;
  1-1-5.BACK SHELL: STAINLESS STEEL, T=0.25mm;
  1-1-6.INNER SHELL: STAINLESS STEEL, T=0.40mm;
 1-2.HDMI RECEPTACLE
  1-2-1.HOUSING: LCP,UL94V-0,BLACK;
  1-2-2.COVER: LCP,UL94V-0,BLACK;
  1-2-3.CONTACTS: BRASS,T=0.25mm;
  1-2-4.HDMI SHELL: STAINLESS STEEL, T=0.50mm;
2.PLATING:
 2-1.DISPLAYPORT
  2-1-1 TERMINAL:
   CONTACT AREA:Au 3u"
   SOLDER TAIL:MATTE TIN 50u"
   UNDER PLATED:NICKEL 50u"
  2-1-2.FRONT SHELL: BLACK Ni 30u"
  2-1-3.BACK SHELL: NICKEL 50u"
  2-1-4.INNER SHELL: CLEANING
 2-2.HDMI
  2-2-1 TERMINAL:
   CONTACT AREA:Au 3u"
   SOLDER TAIL:MATTE TIN 50u"
   UNDER PLATED:NICKEL 50u"
  2-2-2.SHELL: BLACK Ni 30u"
3.MECHANICAL PERFORMANCE
 3-1.MATING FORCE: 4.5kgf MAX
 3-2.UNMATING FORCE: 1.0~4.0kgf MAX
 3-3.DURABILITY: 10000 CYCLES
4.ELECTRICAL PERFORMANCE:
 4-1.INSULATION RESISTANCE:
  UNMATED 100MΩ MIN,MATED 10MΩ MIN.
 4-2.DELECTIC WITHSTANDING VOLTAGE:
  500V AC MIN,MATED 300V AC MIN
5.HF COMPLIANT
6.IR REFLOW:
 THE PEAK TEMPERATURE ON THE BOARD SHOULD BE MAINTAINED FOR 10 SECONDS AT 260±5°C
7.BLACK Ni LIMT: 3 MONTH AFTER ETD

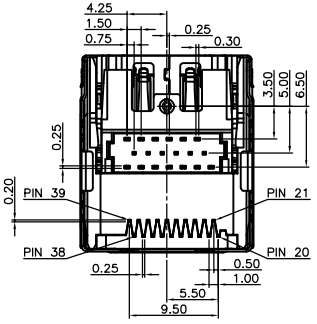


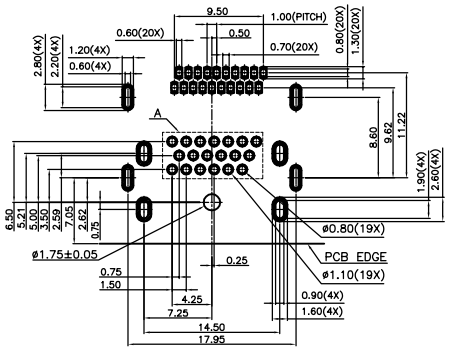




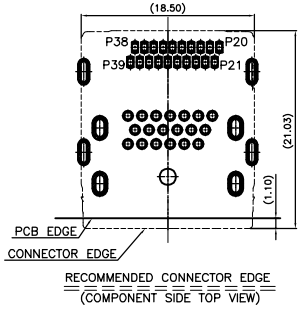


HDMI		DP	
Pin NO.	Signal Assignment	Pin NO.	Signal Assignment
P1	TMDS Data2+	P20	ML_Lane0 (p)
P2	TMDS Data2 Shield	P21	GND
P3	TMDS Data2−	P22	ML_Lane0 (n)
P4	TMDS Data1+	P23	ML_Lane1 (p)
P5	TMDS Data1 Shield	P24	GND
P6	TMDS Data1−	P25	ML_Lane1 (n)
P7	TMDS Data0+	P26	ML_Lane2 (p)
P8	TMDS Data0 Shield	P27	GND
P9	TMDS Data0−	P28	ML_Lane2 (n)
P10	TMDS Clock+	P29	ML_Lane3 (p)
P11	TMDS Clock Shield	P30	GND
P12	TMDS Clock−	P31	ML_Lane3 (n)
P13	CEC	P32	GND
P14	Reserved(N.C.)	P33	GND
P15	SCL	P34	AUX_CH (p)
P16	SDA	P35	GND
P17	DC/CEC Ground	P36	AUX_CH (n)
P18	+5V Power	P37	Hot Plug
P19	Hot Plug Detect	P38	DP_PWR Return
		P39	DP_PWR

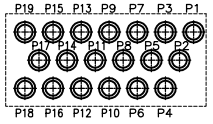




RECOMMENDED DP& HDMI P.C.B LAYOUT(COMPONENT SIDE)
THICKNESS=1.20±0.05 TOLERANCE: ±0.05



RECOMMENDED CONNECTOR EDGE
(COMPONENT SIDE TOP VIEW)



DETAIL A
SCALE 4:1

PART NO. INFORMATION

DP09-F2A5T-014

- GENDER: F: FEMALE; M: MALE
- CONTACT PLATED: 1: GOLD FLASH; 2: GOLD 3U"; 3: GOLD 5U"; 4: GOLD 10U"; 5: GOLD 15U"; 6: GOLD 30U"
- HOUSING MATERIAL: A: LCP B: PPT C: PA9T D: PA6T E: PA46 F: PA66
- HOUSING COLOR: 2: WHITE; 5: BLACK; 9: NATURE
- PACKAGE: R: TAPE REEL T:TRAY

Bestcreate Technology Limited

TOLERANCES UNLESS OTHERWISE SPECIFIED:

.X	±	0.35	X.°	±	2°
.XX	±	0.25	.X°	±	1°
.XXX	±	0.15	.XX°	±	0.5°

Website:www.bsc-elec.com
Email:bestcreate@bsc-elec.com

DESIGN: I.L	DATE: 2017.3.1	
CHECKED: C.W	DATE: 2017.3.1	
APPROVED: C.W	DATE: 2017.3.1	

TITLE: DISPLAYPORT FEMALE +HDMI A FEMALE CONNECTOR DIP TYPE WITH LOCK PIN

MATERILA:	PART NO: DP09-F2A5T-015	SIZE: A4
FINSH:	DWG NO: DP09-F2A5T-015	

REV:	UNIT	SCALE	QUALITY SYMBOLS
A	mm	1=1	