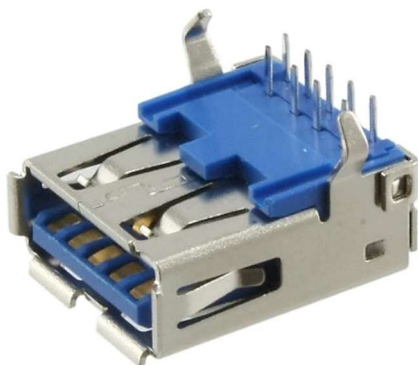




## MPSI CONNEX USB 3.0 Superspeed Connectors, 605 Series:

*Order Code 605-0005 – Type A Recept, Horizontal 90° Mount, TH, 1.8A, UL94V-0 Blue Insulator*



Images are for Illustrative Purposes Only

USB 3.0 Type A, Horizontal 90° Through-Hole PCB Mount Conn.

Current Rating 1.8A. Blue UL94V-0 PBT Insulator as Standard. PA9T Hi-Temp Insulator option (suitable for reflow assembly).

Copper Alloy Shell and Gold Flash Plated Contacts as Standard. Tin Plated Solder Tails and Nickel Plated Shell. Tray Packaging.

Available Options (*SEE > OPTIONS*):

Shell Material  
Contact Plating  
Insulator Material  
Packaging

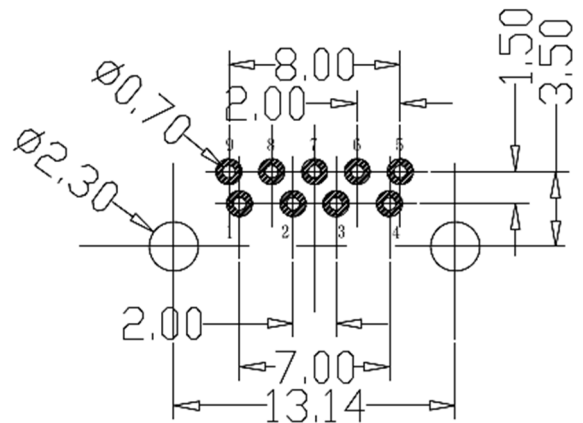
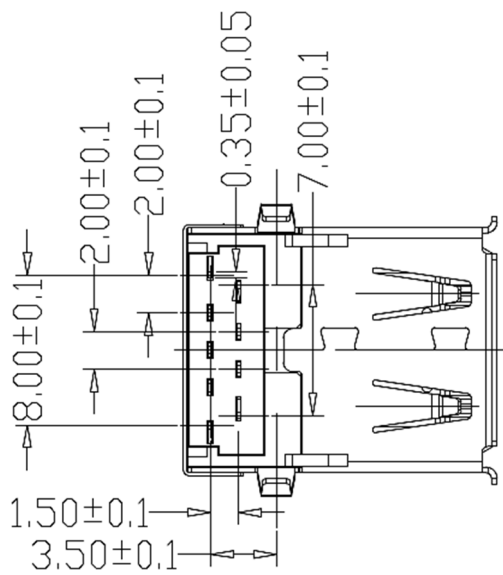
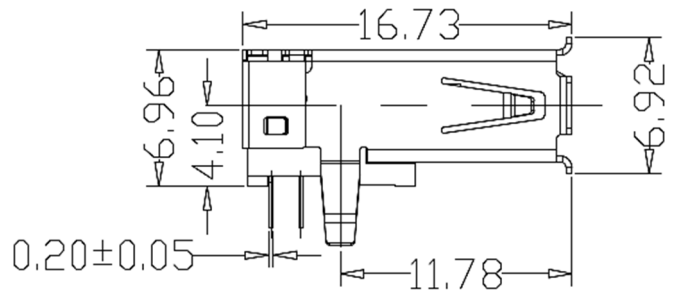
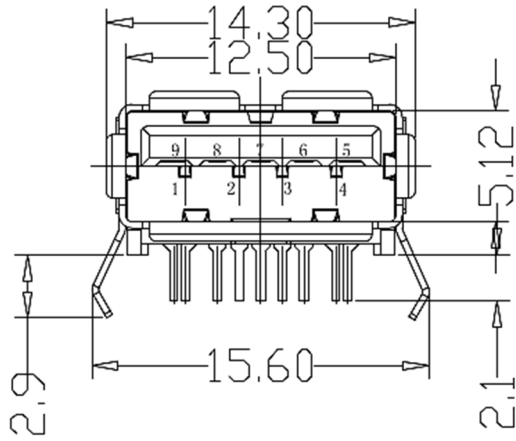
### > TECHNICAL SPECIFICATION

NUMBER OF PORTS:	SINGLE
CONNECTOR TYPE:	USB 3.0 TYPE A RECEPTACLE
MOUNTING TYPE:	PCB THROUGH-HOLE
ORIENTATION:	HORIZONTAL 90°
INSULATION (PLASTICS):	BLUE PBT UL94V-0 AS STANDARD ( <i>SEE &gt; OPTIONS</i> )
CONTACT MATERIAL:	COPPER ALLOY
CONTACT PLATING:	GOLD FLASH ( <i>SEE &gt; OPTIONS</i> )
SHELL MATERIAL:	COPPER ALLOY AS STANDARD ( <i>SEE &gt; OPTIONS</i> )
SHELL PLATING:	NICKEL
SOLDER TAILS:	TIN
RoHS COMPLIANT:	YES
CURRENT RATING:	1.8A PWR PINS 1 & 4. 0.25A SIGNAL PINS 2,3,5,6,7,8 & 9
VOLTAGE RATING:	30V DC
CONTACT RESISTANCE:	30 mΩ MAX
DIELECTRIC WITHSTANDING VOLTAGE:	100V AC
INSULATION RESISTANCE:	100MΩ
OPERATING TEMPERATURE:	-25°C to +75°C
MATING FORCE (MAX):	35.0 NEWTON
UNMATING FORCE (MIN):	10.0 NEWTON
DURABILITY:	1500 MATING CYCLES
MAX PROCESSING TEMP:	PBT: 230°C 30-60 SECS. PA9T: 280°C 30-60 SECS

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## > PHYSICAL



RECOMMENDED PCBA LAYOUT

Pin #	Signal Name	Description
1	VBUS	Power
2	D-	USB Differential Pair
3	D+	USB Differential Pair
4	GND	Ground for Power Return
5	StdA_SSRX-	SuperSpeed Receiver
6	StdA_SSRX-	Differential Pair
7	GND_DRAIN	Ground for Signal Return
8	StdA_SSTX-	SuperSpeed Transmitter
9	StdA_SSTX+	Differential Pair



> PART OPTIONS:

SHELL MATERIAL: (COPPER ALLOY AS STANDARD NO SUFFIX)	-I IRON -S STAINLESS STEEL
CONTACT PLATING: (GOLD FLASH OVER NICKEL STANDARD NO SUFFIX)	-G1 3U" GOLD -G2 5U" GOLD -G3 10U" GOLD -G4 15U" GOLD -G5 30U" GOLD
INSULATOR MATLS: (PBT AS STANDARD NO SUFFIX)	-HT PA9T HI-TEMP BLUE (UL94V-0)
PACKAGING: (TRAY PACKAGING AS STANDARD NO SUFFIX)	-1 PE BAG -2 TUBE -3 REEL

PART NO. EXAMPLE: 605-0005 = COPPER ALLOY SHELL, GOLD FLASH PLATING, PBT BLUE UL94V-0 INSULATOR. TRAY PACKAGING. PLEASE VERIFY AVAILABILITY ON OPTIONS PRIOR TO SELECTION.

## > REVISION HISTORY

Revision	Description	Date
1.0	Initial Drawing Release	17.09.2012

Revision History provided is for informational purposes only and is believed to be accurate.

