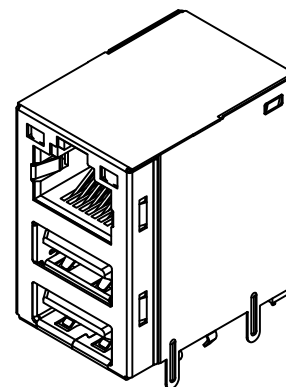
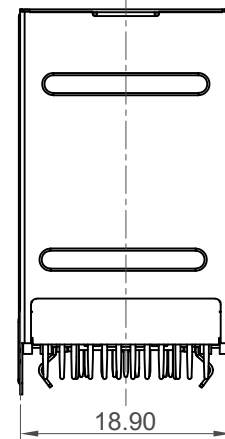
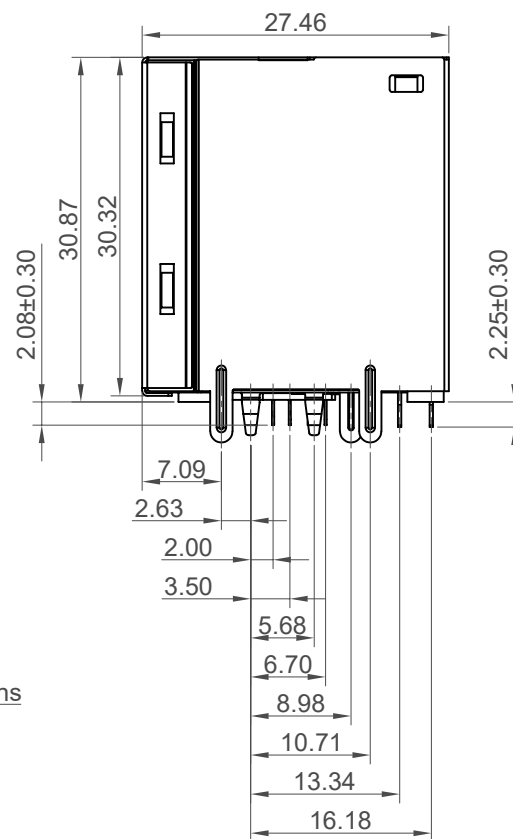
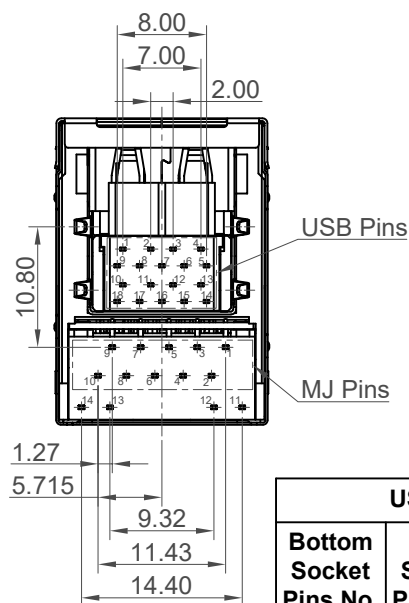
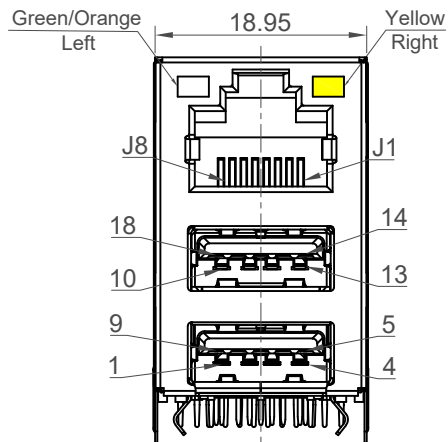


H
G
F
E
D
C
B
A



USB Pins Layout		
Bottom Socket Pins No.	Top Socket Pins No.	Signal Name
1	10	VBUS
2	11	D-
3	12	D+
4	13	GND
5	14	StdA_SSRX-
6	15	StdA_SSRX+
7	16	GND_DRAIN
8	17	StdA_SSTX-
9	18	StdA_SSTX+

Ordering Grid

MGB0A1-1 C DD B005 H

Request Samples and Quotation

Contact Plating

C = 6μ" Gold

Packing Options

H = Tray (50pcs per tray)

Specifications

Material

MJ Housing: PBT, UL 94V-0, Black
USB Housing: PBT, UL 94V-0, Blue
MJ Terminals Bracket: LCP, UL 94V-0, Black
MJ Terminal: Phosphor Bronze
USB Terminal: Brass
MJ&USB Shells: Stainless Steel

Plating

MJ Terminal:
Contact Area: 6μ" Gold
Solder Tails: Matte Tin
USB Terminal:
Contact Area: 6μ" Gold
Underplating: Nickel
Solder Tails: Matte Tin
MJ&USB Shells: Nickel

Electrical (USB 3.0)

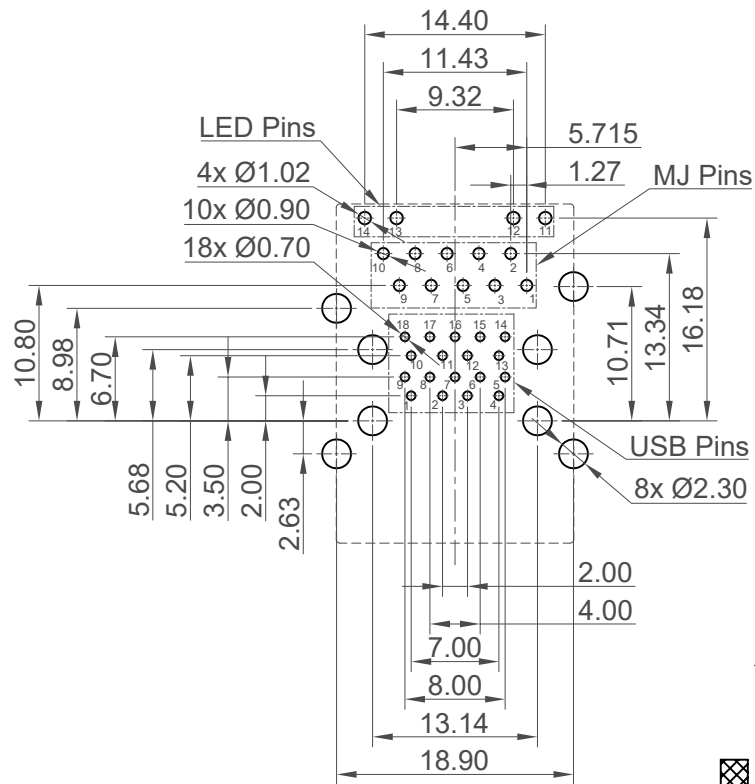
Voltage Rating: 100V AC/DC
Current Rating: 0.25A (Signal Pins)
1.8A (Power Pins)
Contact Resistance: 30 mΩ max. (Power Pins)
50 mΩ max. (Signal Pins)
Insulating Resistance: 100MΩ min.
Dielectric Withstand Voltage: 100V AC/minute

Mechanical & Environmental

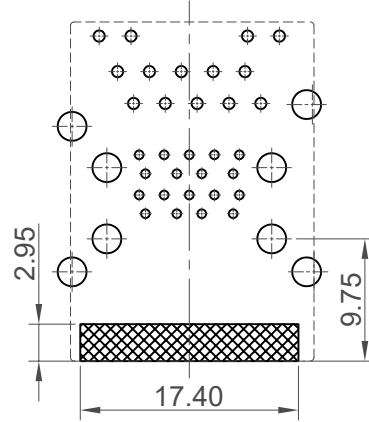
Storage Temperature: -40°C to +85°C
Operation Temperature: -40°C to +85°C
Durability: MJ: 750 Cycles, USB: 1500 Cycles
Mating Force: MJ: 23N max., USB: 35N max.
Unmating Force:
MJ: 10N max. (Latch Depressed)
USB: 10N min. initial, 8N min. after test.

Part Number		Product Description			 www.gct.co
MGB0A1		Modular Jack, With Shell, With LED, With Magnetics, R/A, Stacked Dual USB 3.0, Through Hole, 1000Base			
Drawing Date					
17th October 2025					
By	KY	Tolerances (Except as Noted)	Units:	  This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT). This drawing must not be copied or disclosed without written consent. E & OE	
Detail	Drawing Release	Length X. ±0.35 X.X ±3.0 X.XX ±0.25 X.XXX ±0.10	Metric (mm)		
Revision	A	X. ±3.0° X.X ±2.0° X.XX ±1.5° X.XXX ±1.0°			
Date	17/10/25				
		3rd Angle Projection			
Not to Scale		Drawn By CC		Sheet No. 1/4	

GCT
www.gct.co

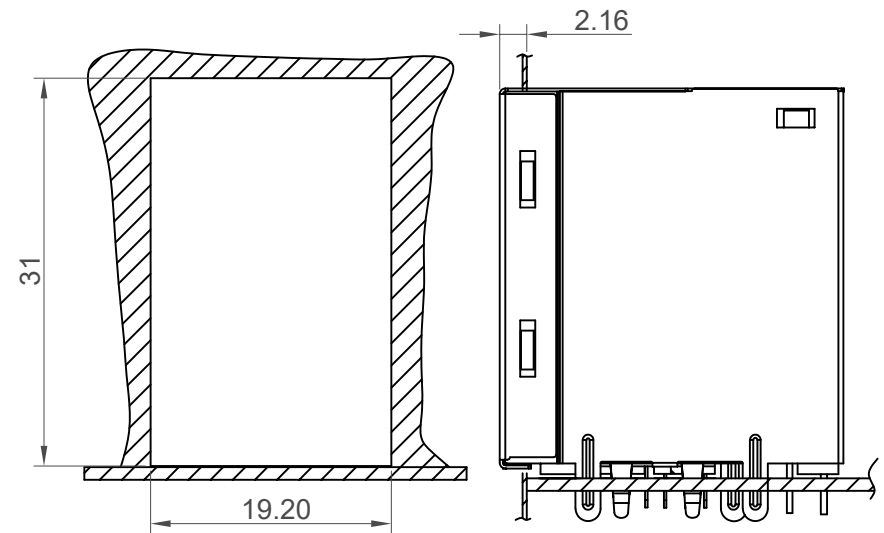
H
G
F
E
D
C
B
A

Recommended PCB Layout
Viewed from Component Side
Tolerance: $\pm 0.05\text{mm}$
□ Component Outline



Recommended Keep Out Area
Viewed from Component Side
Tolerance: $\pm 0.05\text{mm}$

▣ Keep Out Area □ Component Outline



Recommended Panel Cut Out
Tolerance: $\pm 0.10\text{mm}$

Part Number		Product Description	
MGB0A1		Modular Jack, With Shell, With LED, With Magnetics, R/A, Stacked Dual USB 3.0, Through Hole, 1000Base	
Drawing Date		17th October 2025	
By	KY	Tolerances (Except as Noted)	Units:
Detail	Drawing Release	Length	Metric (mm)
Revision	A	Angle	3rd Angle Projection
Date	17/10/25	X ± 0.35	X ± 3.0°
		X.X ± 0.30	X.X° ± 2.0°
		X.XX ± 0.25	X.XX° ± 1.5°
		X.XXX ± 0.10	X.XXX° ± 1.0°

RoHS COMPLIANT
2011/05/EU
Deca-SIDE

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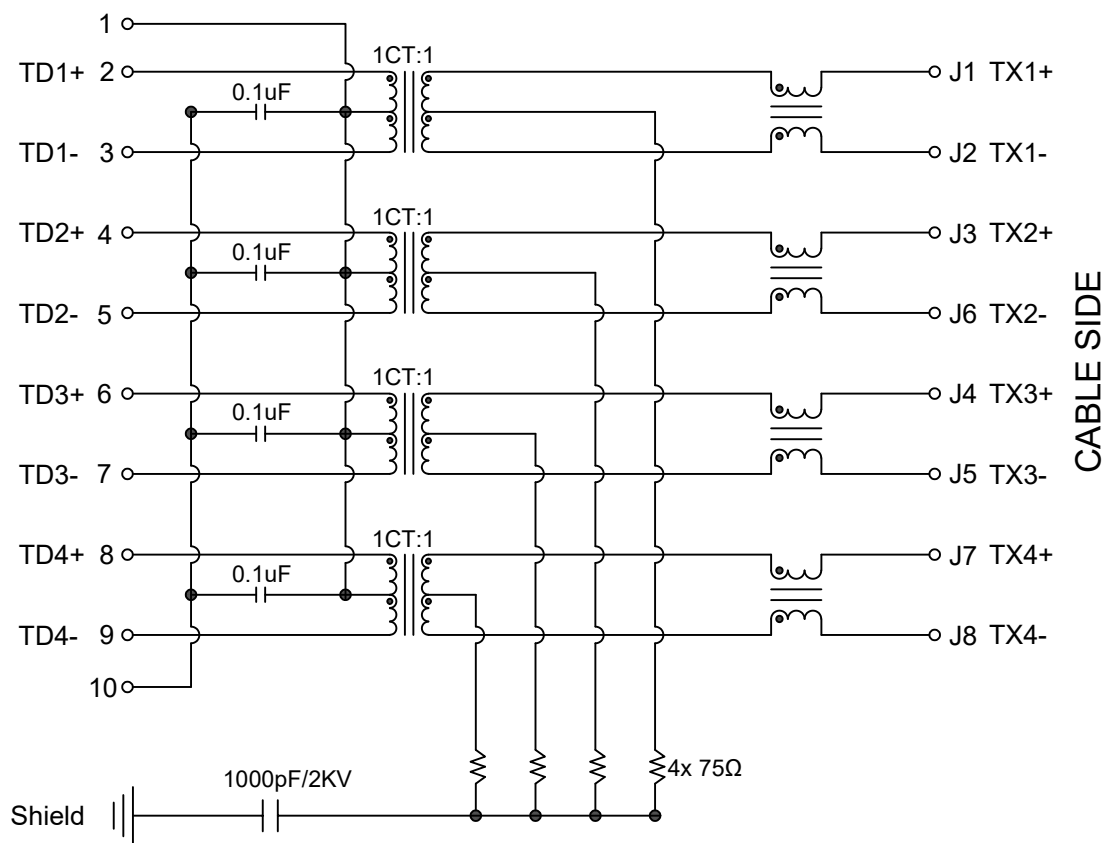
GCT
www.gct.co

Not to Scale

Drawn By
CC

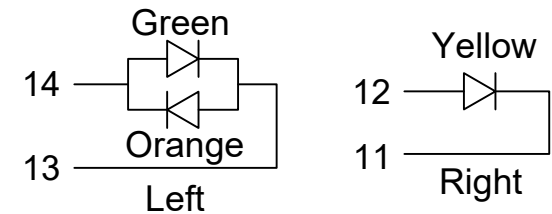
Sheet No.
2/4

PCB SIDE TO PHY



LED Specification

Standard LED Colour	Wave Length	Forward A(max)	Forward V
Green	565nm	20mA	2.2-2.4V
Orange	600nm	20mA	1.8-2.4V
Yellow	590nm	20mA	2.1-2.5V



Pin	Green	Orange	Pin	Yellow
13	-	+	11	-
14	+	-	12	+

Electrical (MJ)

1. Turn Ratio:

(2-3) : (J1-J2) = 1CT : 1CT ($\pm 2\%$)(4-5) : (J3-J6) = 1CT : 1CT ($\pm 2\%$)(6-7) : (J4-J5) = 1CT : 1CT ($\pm 2\%$)(8-9) : (J7-J8) = 1CT : 1CT ($\pm 2\%$)

2. OCL: 350uH min.@ 100KHz, 100mV, 8mA DC.

3. Insertion Loss: -1.0dB Max, 0-100MHz.

-1.2dB Max, 100-125MHz.

4. Return Loss: 1-40MHz, -16dB min.

40-60MHz, -12dB min.

60-80MHz, -10dB min.

80-100MHz, -8dB min.

5. Cross Talk: -30dB Min 1-100MHz.

6. CMR: 1-100MHz, -30dB min.

7. Hi-Pot: 2250V DC 60s 1mA PRI to SEC

8. Speed: 10/100/1000M Base-T

Part Number		Product Description	
MGB0A1		Modular Jack, With Shell, With LED, With Magnetics, R/A, Stacked Dual USB 3.0, Through Hole, 1000Base	
Drawing Date		17th October 2025	
By	KY	Tolerances (Except as Noted)	Units:
Detail	Drawing Release	Length	Metric (mm)
Revision	A	Angle	
Date	17/10/25		



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