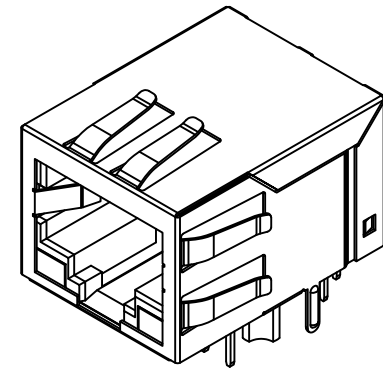
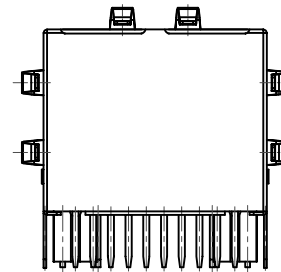
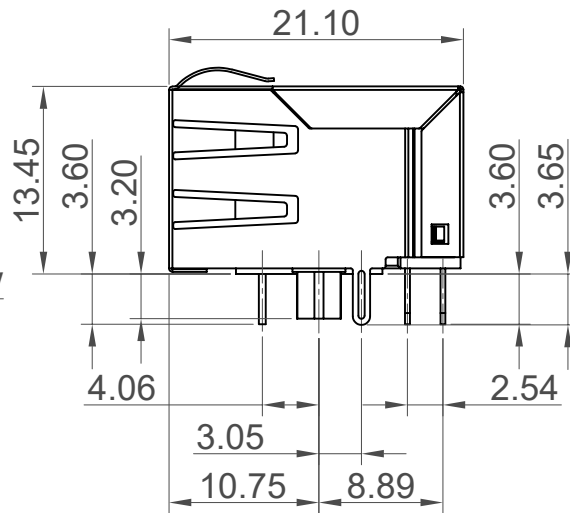
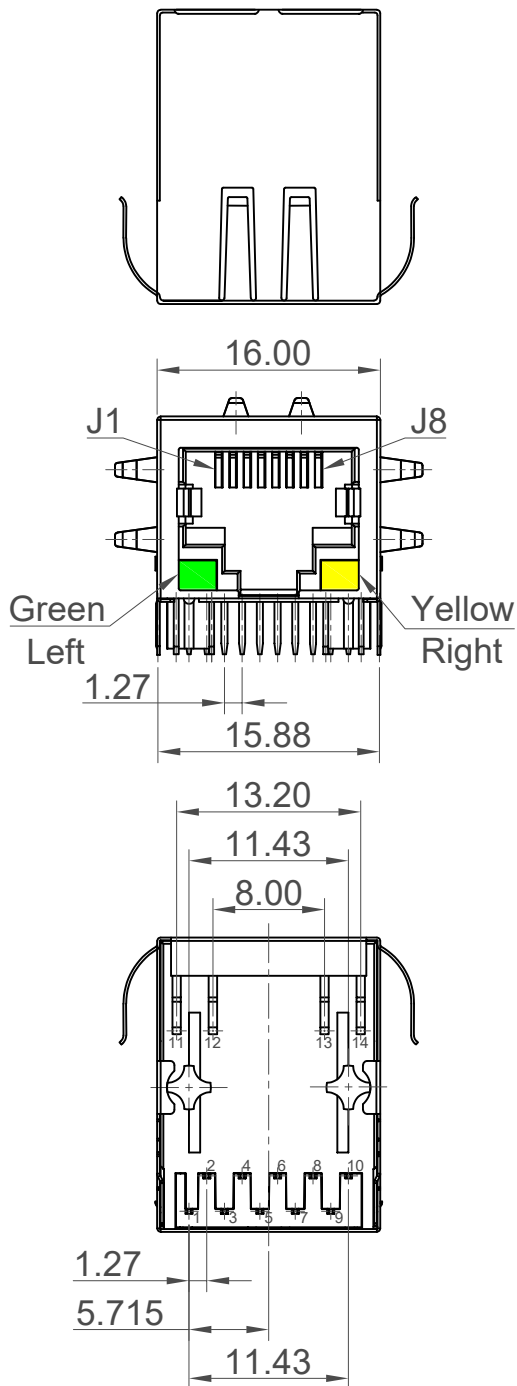




Specifications

Material

Housing: PBT, UL 94V-0, Black
Shell: Brass
Terminal: Phosphor Bronze

Plating

Terminal:
Contact Area: 6μ" Gold
Solder Tails: Tin
Shell: Nickel

Mechanical & Environmental

Storage Temperature: -40°C to +85°C
Operation Temperature: -40°C to +85°C
Durability: 750 Cycles min.
Mating Force: 23N max.

Ordering Grid

MGC005 — 2 C D2 C001 H [Request Samples and Quotation](#)

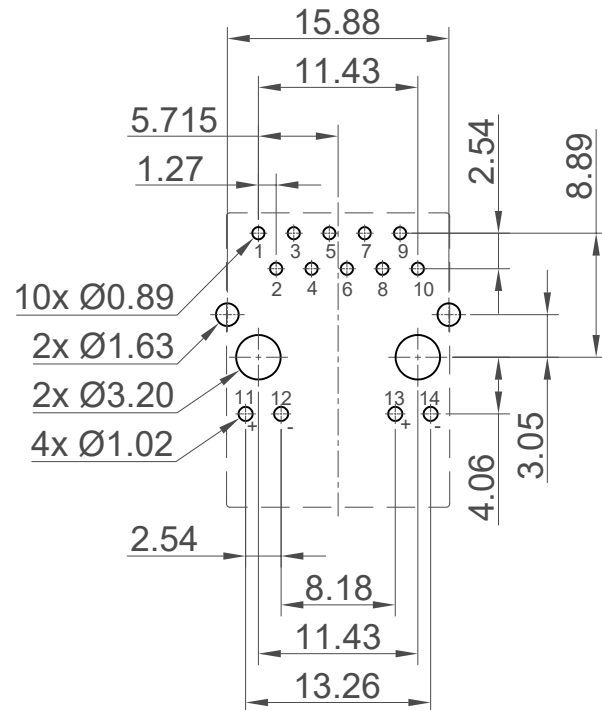
Contact Plating
C = 6μ" Gold

Packing Options
H = Tray (120pcs per tray)

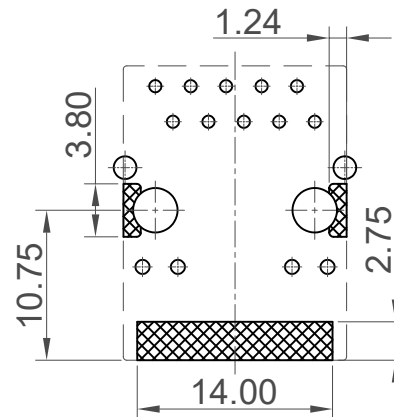
Part Number		Product Description	
MGC005		Modular Jack, With Shell, With LED, With Magnetics, R/A, Through Hole, 2.5G	
Drawing Date		17th October 2025	
By	KY	Tolerances (Except as Noted)	Units:
Detail	Drawing Release	Length X. ±0.35 X.X ±0.30 X.XX ±0.25 X.XXX ±0.10	Metric (mm)
Revision	A	Angle X.X° ±3.0° X.XX° ±2.0° X.XX° ±1.5° X.XXX° ±1.0°	3rd Angle Projection
Date	17/10/25		
		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	
		Not to Scale	Drawn By CC
		Sheet No. 1/4	

GCT
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H
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F
E
D
C
B
A

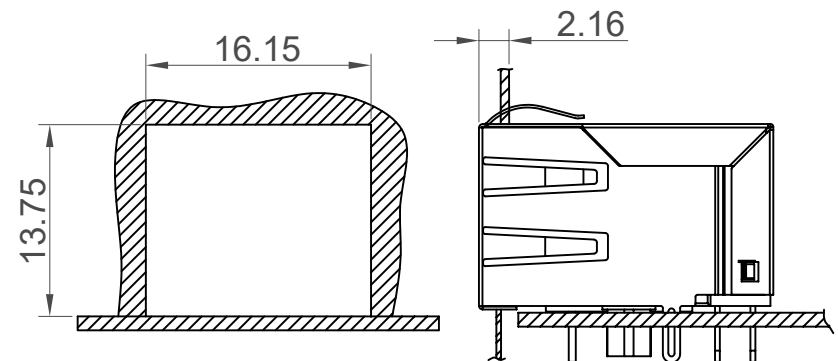


Recommended PCB Layout
Viewed from Component Side
Tolerance:±0.05mm
□ Component Outline



Recommended Keep Out Area
Viewed from Component Side
Tolerance:±0.05mm

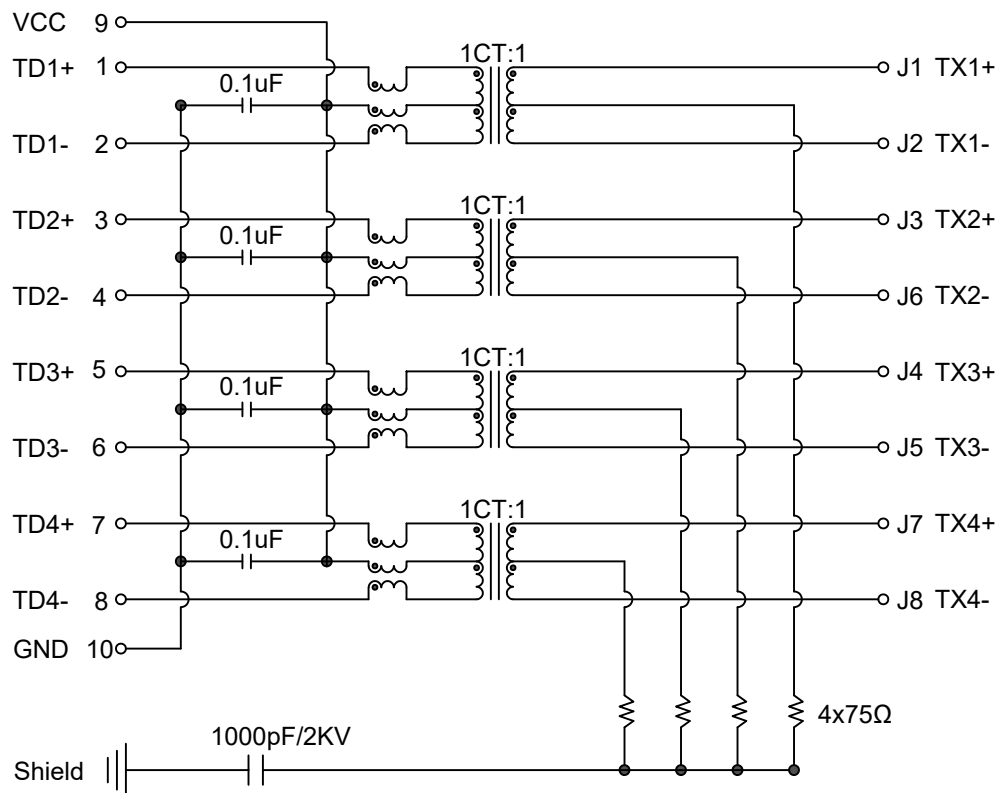
▨ Keep Out Area □ Component Outline



Recommended Panel Cut Out
Tolerance:±0.10mm

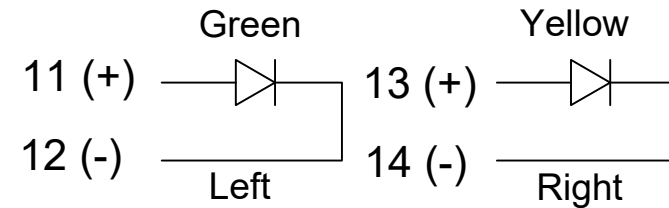
Part Number		Product Description				 www.gct.co
MGC005		Modular Jack, With Shell, With LED, With Magnetics, R/A, Through Hole, 2.5G				
Drawing Date						
17th October 2025						
By	KY	Tolerances (Except as Noted)		Units:	This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT). This drawing must not be copied or disclosed without written consent. E & OE Not to Scale Drawn By CC Sheet No. 2/4	
Detail	Drawing Release	Length	Angle	Metric (mm)		
Revision	A	X, ±0.35	X°, ±3.0°	 3rd Angle Projection		
Date	17/10/25	X.X, ±0.30	X.X°, ±2.0°			
		X.XX, ±0.25	X.XX°, ±1.5°			
		X.XXX, ±0.10	X.XXX°, ±1.0°			

PCB Side to PHY



LED Specification			
Standard LED Colour	Wave Length	Forward A(max)	Forward V
Green	568nm	20mA	1.85-2.45V
Yellow	585nm	20mA	1.7-2.2V

Cable Side



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

Electrical

1. Turn Ratio:

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

2. OCL: 180uH min.@ 100KHz, 100mV.

3. Insertion Loss: 1-125MHz, -1.0dB max.

4. Return Loss: 1-40MHz, -20dB min.

40-200MHz, -20+15LOG₁₀(f/40MHz) min.

5. Cross Talk: 1-125MHz, -30dB min.

6. CMR: 30-200MHz, -30dB min.

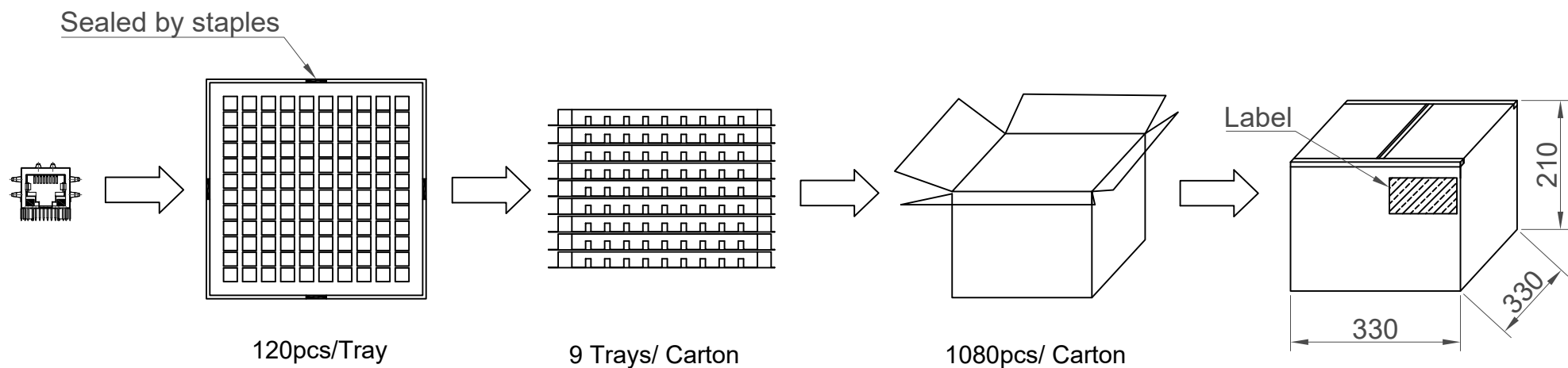
7. Hi-Pot: 2250V DC 6s 1mA PRI to SEC

8. Speed: 2.5GbE

Part Number		Product Description	
MGC005		Modular Jack, With Shell, With LED, With Magnetics, R/A, Through Hole, 2.5G	
Drawing Date		17th October 2025	
By	KY	Tolerances (Except as Noted)	Units: Metric (mm)
Detail	Drawing Release	Length	Angle
Revision	A	-	-
Date	17/10/25	-	-
		3rd Angle Projection	
		RoHS COMPLIANT 2011/05/UE	
		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	
		Not to Scale	Drawn By CC
		Sheet No. 3/4	

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A



Pcs / Tray	Trays / Carton	Total Quantity
120	9	1080 pcs

Part Number		Product Description		
MGC005		Modular Jack, With Shell, With LED, With Magnetics, R/A, Through Hole, 2.5G		
Drawing Date				
17th October 2025				
By	KY	Tolerances (Except as Noted)	Units:	
Detail	Drawing Release			
Revision	A	-		
Date	17/10/25			
				
		 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		
		Not to Scale	Drawn By CC	
		Sheet No. 4/4		

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