

CTRJG Series

10/100/1000 Gigabit Ethernet RJ45 Integrated Modular Jack

CHARACTERISTICS

Options: 1x2, 1x4, 1x6, 1x8 & 2x1, 2x4, 2x6, 2x8 Port
 Meets or exceeds IEEE 802.3 standard for 10/100/1000 Base-TX
 Suitable for CAT 5 & 6 Fast Ethernet Cable of better UTP
 350 μ H minimum OCL with 8mA DC bias current
 Available with or without LEDs
 Minimum 1500Vrms isolation per IEEE 802.3 requirement
 Operating temperature 0°C to +70°C
 Storage temperature -40°C to +85°C

RoHS Compliant

Transformer electrical specifications @ 25°C

MATERIAL SPECIFICATION

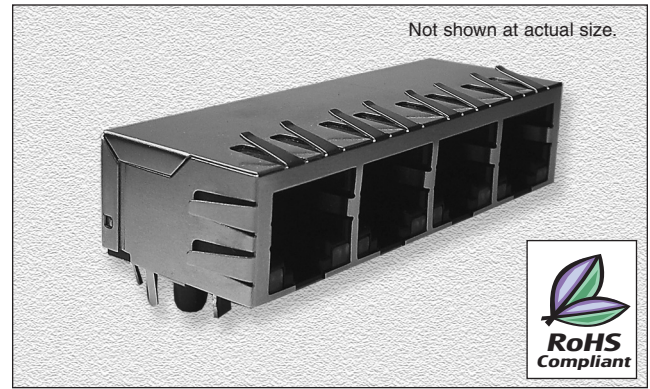
Metal Shell: Copper Alloy, Finish: 50 μ " Nickel

Housing: Thermoplastic, UL 94V-0, Color Black

Insert: Thermoplastic, UL 94V-0, Color Black

Contact Terminal / Phosphor Bronze, 15 μ " Gold on Contact Area,
 100 μ " Tin on Solder, Both over 50 μ ", Nickel Under-Plated

Coil Base: Phenolic/LCP, UL 94V-0, Color Black



PART NUMBER CONFIGURATION

Series	Size Code	Layers	Port (Each Layer)	LED (L/R)	Tab	Schematic
CTRJG	26 29 31 33	S = Single D = Double	1 2 4 6 8	N = None G = Green Y = Yellow O = Orange	N = N/A D = Down U = Up	1001A, 1002A 1003A, 1012A 1013A, 1012B 1015B, 1223C 1224C, 1226C 1227C, 1013D 1015D

Single Layer: CTRJG 26 S 1 GY U 1001A
 Double Layer: CTRJG 31 D 1 GONN N 1013D

LED CONFIGURATION

Schematic	Standard LED	Wavelength (λ)	V / IF= 20 mA		Image
			Max.	Typ.	
1001A 1002A 1003A 1012A 1013A	Yellow	585nm	2.5V	2.1V	Left LED: P14, P13 Right LED: P12, P11
	Green	570nm	2.5V	2.1V	
	Orange	605nm	2.5V	2.1V	
1012B 1015B	Yellow	585nm	2.5V	2.1V	Left LED: P12, P11 Right LED: P14, P13
	Green	570nm	2.5V	2.1V	
1223C 1224C 1226C 1227C	Yellow	585nm	2.5V	2.1V	Left LED: P16, P15 Right LED: P14, P13
	Green	570nm	2.5V	2.1V	
	Orange	605nm	2.5V	2.1V	
1013D 1015D	Green	570nm	2.5V	2.1V	LEDs: P11, P12 Green, Orange
	Orange	605nm	2.5V	2.1V	

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CTRJG Series

ORDERING INFO

Part Number	Turns Ratio TD1/2/3/4	EMI Fingers	LEDs (L/R)	LEDs (U/D)	Insertion Loss (dB max.)			Return Loss 100Ω ± 15Ω (dB min.)				Cross Talk (dB min.)			C.M.R. (dB min)		Hi-pot (Vrms) 60HZ/1 min.
					1-100 MHz	1-125 MHz	100-125 MHz	1-30 MHz	1-60 MHz	60-80 MHz	80-100 MHz	1-30 MHz	1-60 MHz	60-100 MHz	1-60 MHz	60-100 MHz	
CTRJG26S1GYU1001A	1CT:1CT	YES	G/Y	-	-	-1.2	-	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S1GGU1001A	1CT:1CT	YES	G/G	-	-	-1.2	-	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S1YGU1001A	1CT:1CT	YES	Y/G	-	-	-1.2	-	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S1GYU1002A	1CT:1CT	YES	G/Y	-	-	-1.2	-	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S1GGU1002A	1CT:1CT	YES	G/G	-	-	-1.2	-	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S1YGU1002A	1CT:1CT	YES	Y/G	-	-	-1.2	-	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S1GYU1003A	1CT:1CT	YES	G/Y	-	-	-1.2	-	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S1GGU1003A	1CT:1CT	YES	G/G	-	-	-1.2	-	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S1YGU1003A	1CT:1CT	YES	Y/G	-	-	-1.2	-	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S1GYU1012A	1CT:1CT	YES	G/Y	-	-	-1.2	-	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S1GGU1012A	1CT:1CT	YES	G/G	-	-	-1.2	-	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S1YGU1012A	1CT:1CT	YES	Y/G	-	-	-1.2	-	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S1GYU1013A	1CT:1CT	YES	G/Y	-	-	-1.2	-	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S1GGU1013A	1CT:1CT	YES	G/G	-	-	-1.2	-	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S1YGU1013A	1CT:1CT	YES	Y/G	-	-	-1.2	-	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S2GYU1012B	1CT:1CT	-	G/Y	-	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S2GGU1012B	1CT:1CT	-	G/G	-	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S2YGU1012B	1CT:1CT	-	Y/G	-	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
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CTRJG26S2GGU1015B	1CT:1CT	-	G/G	-	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S2YGU1015B	1CT:1CT	-	Y/G	-	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S4GYU1012B	1CT:1CT	-	G/Y	-	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S4GGU1012B	1CT:1CT	-	G/G	-	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S4YGU1012B	1CT:1CT	-	Y/G	-	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
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CTRJG26S6GGU1015B	1CT:1CT	-	G/G	-	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG26S6YGU1015B	1CT:1CT	-	Y/G	-	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
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CTRJG33S1YGU1224C	1CT:1CT	YES	G/G	-	-	-1.2	-	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
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CTRJG33S1GGU1226C	1CT:1CT	YES	G/G	-	-	-1.2	-	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
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CTRJG33S1YGU1227C	1CT:1CT	YES	Y/G	-	-	-1.2	-	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG33S1GYU1227C	1CT:1CT	YES	GY/G	-	-	-1.2	-	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG29D1NNN1013D	1CT:1CT	-	-	N/N	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
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CTRJG29D6NNN1013D	1CT:1CT	-	-	N/N	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG29D8NNN1013D	1CT:1CT	-	-	N/N	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
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CTRJG29D6NNN1015D	1CT:1CT	-	-	N/N	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG29D8NNN1015D	1CT:1CT	-	-	N/N	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG31D1GONN1013D	1CT:1CT	-	-	GO/N	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG31D4GONN1013D	1CT:1CT	-	-	GO/N	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG31D6GONN1013D	1CT:1CT	-	-	GO/N	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG31D8GONN1013D	1CT:1CT	-	-	GO/N	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
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CTRJG31D4GONN1015D	1CT:1CT	-	-	GO/N	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG31D6GONN1015D	1CT:1CT	-	-	GO/N	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
CTRJG31D8GONN1015D	1CT:1CT	-	-	GO/N	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500

06.06.07



Manufacturer of Passive and Discrete Semiconductor Components

800-684-5322 Inside US

949-453-1811 Outside US

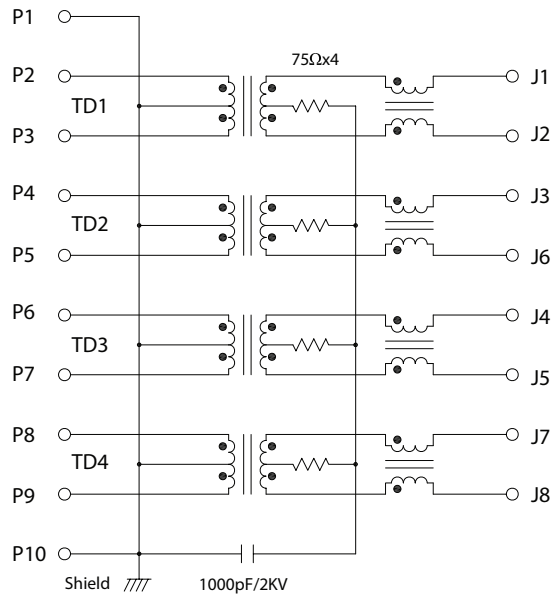
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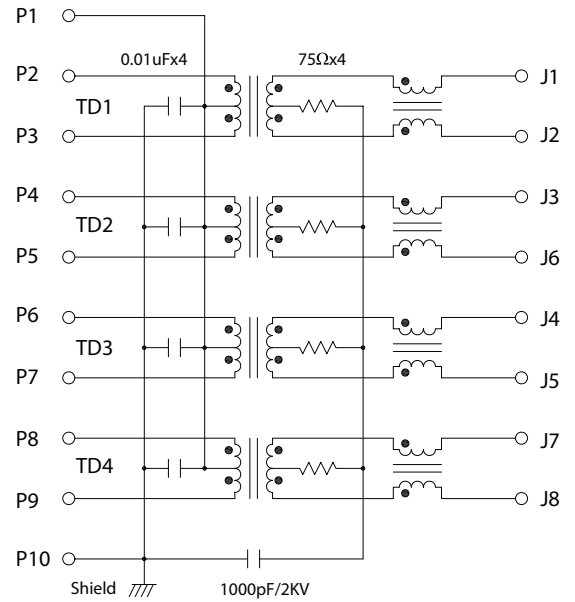
CTRJG Series

SCHEMATICS

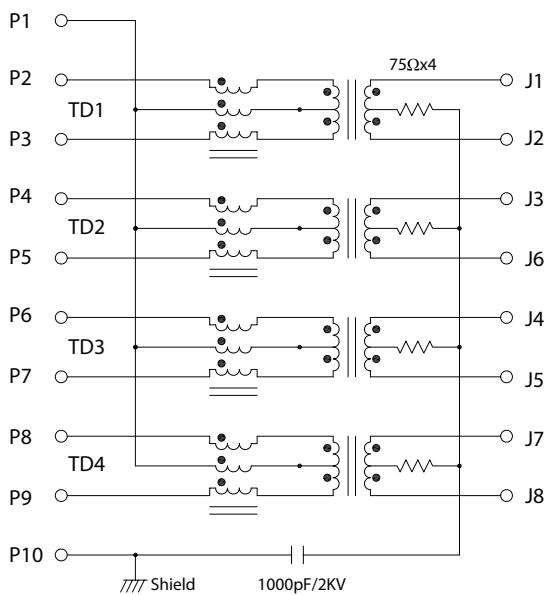
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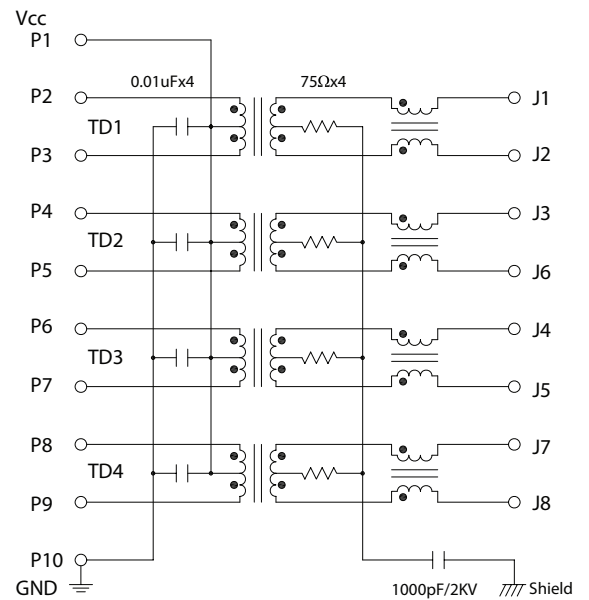
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1003A



1012A

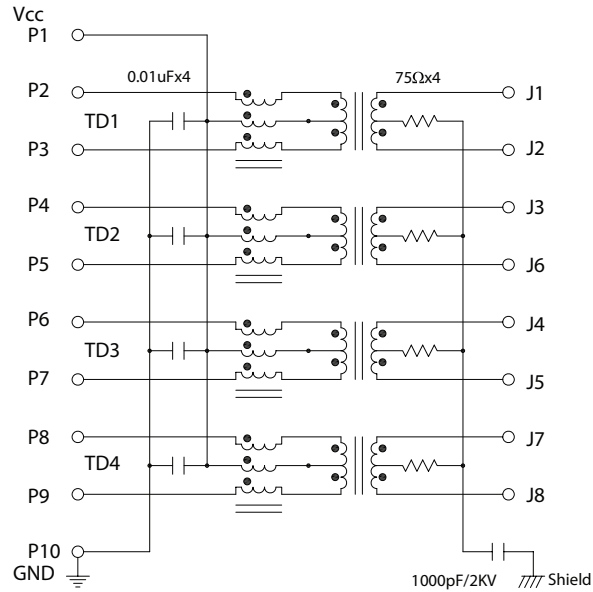


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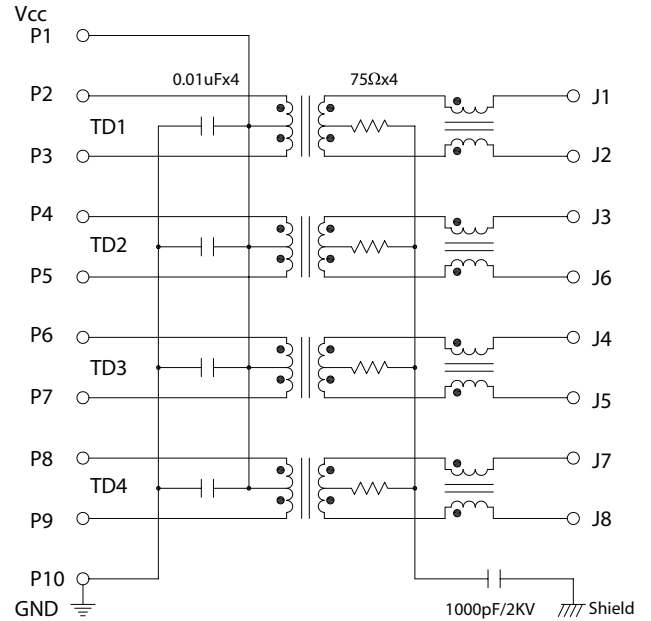
CTRJG Series

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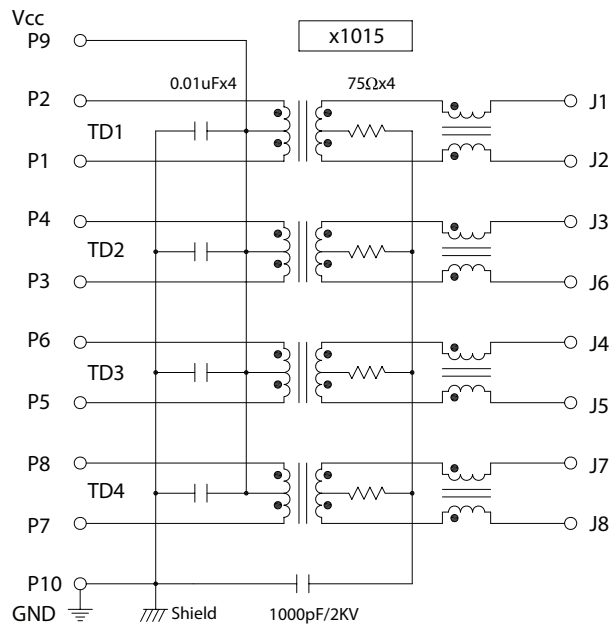
1013A



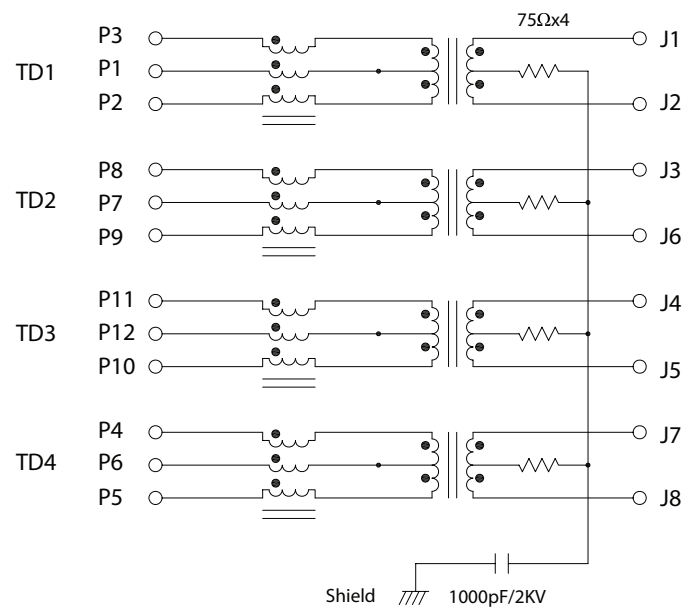
1012B



1015B



1223C

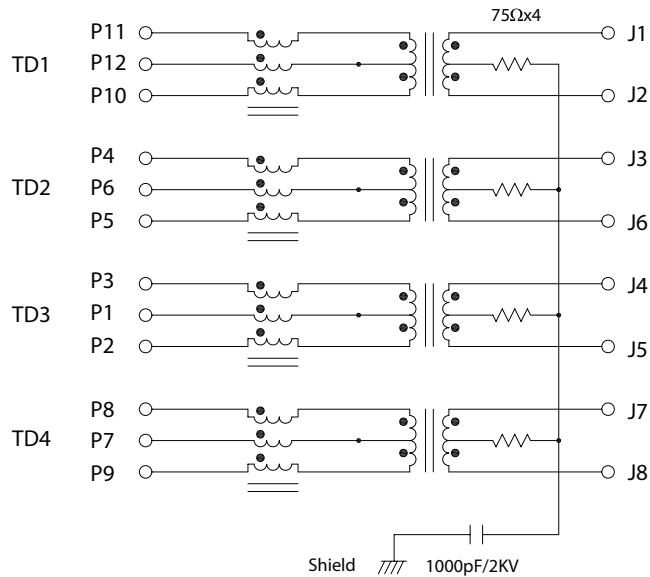


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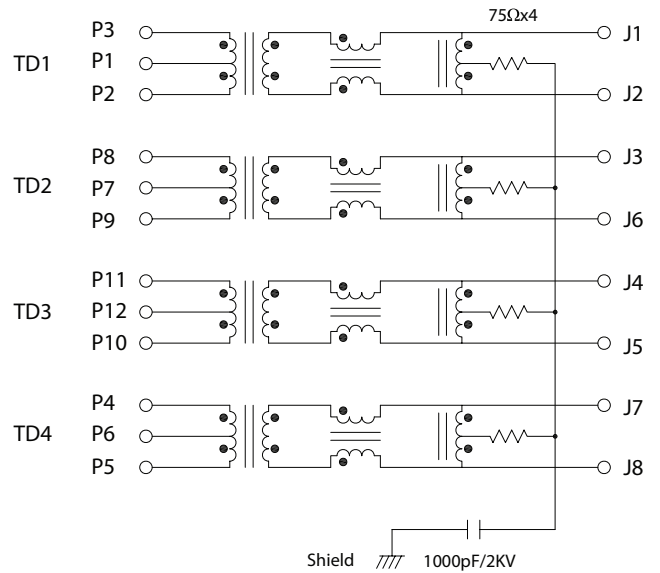
CTRJG Series

SCHEMATICS

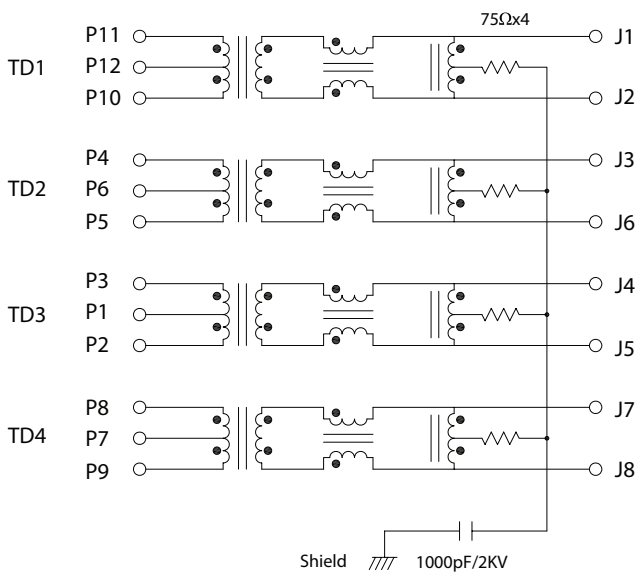
1224C



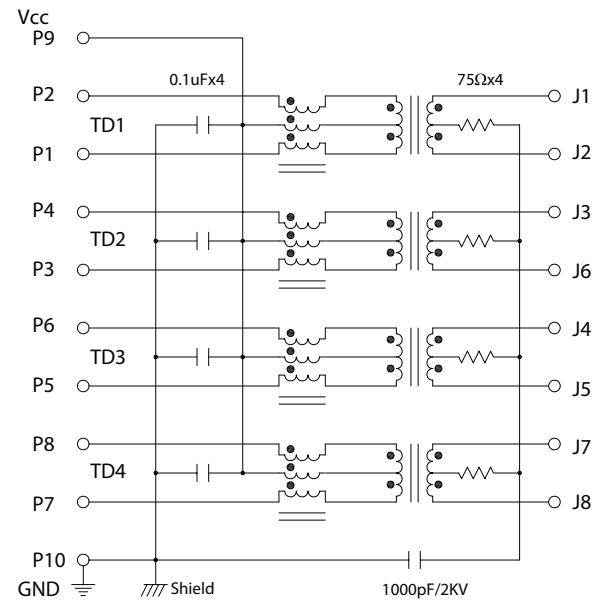
1226C



1227C



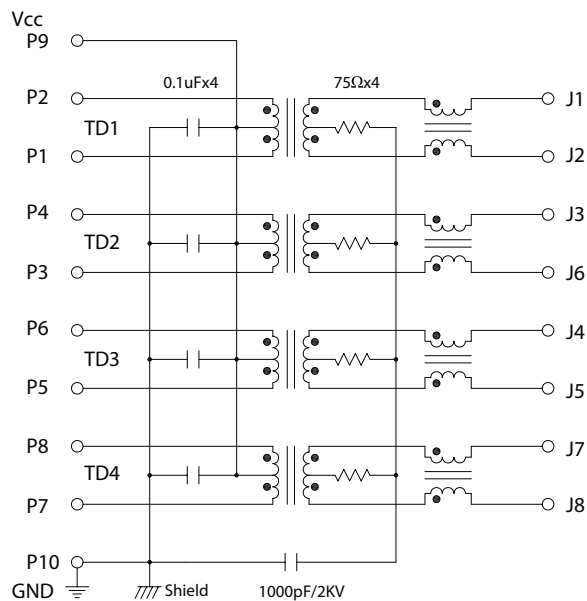
1013D



06.06.07

SCHEMATICS

1015D

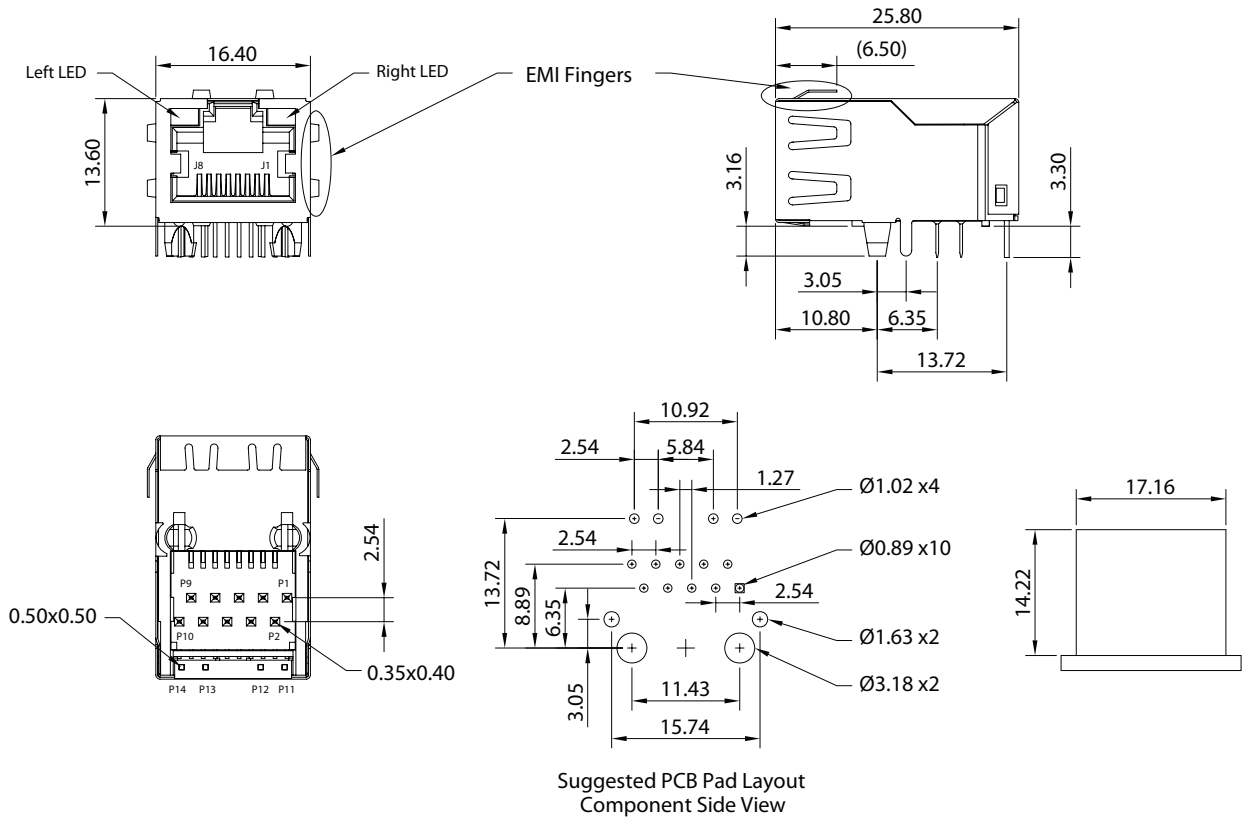


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CTRJG Series

MECHANICAL

CTRJG26S1xxxxxxx



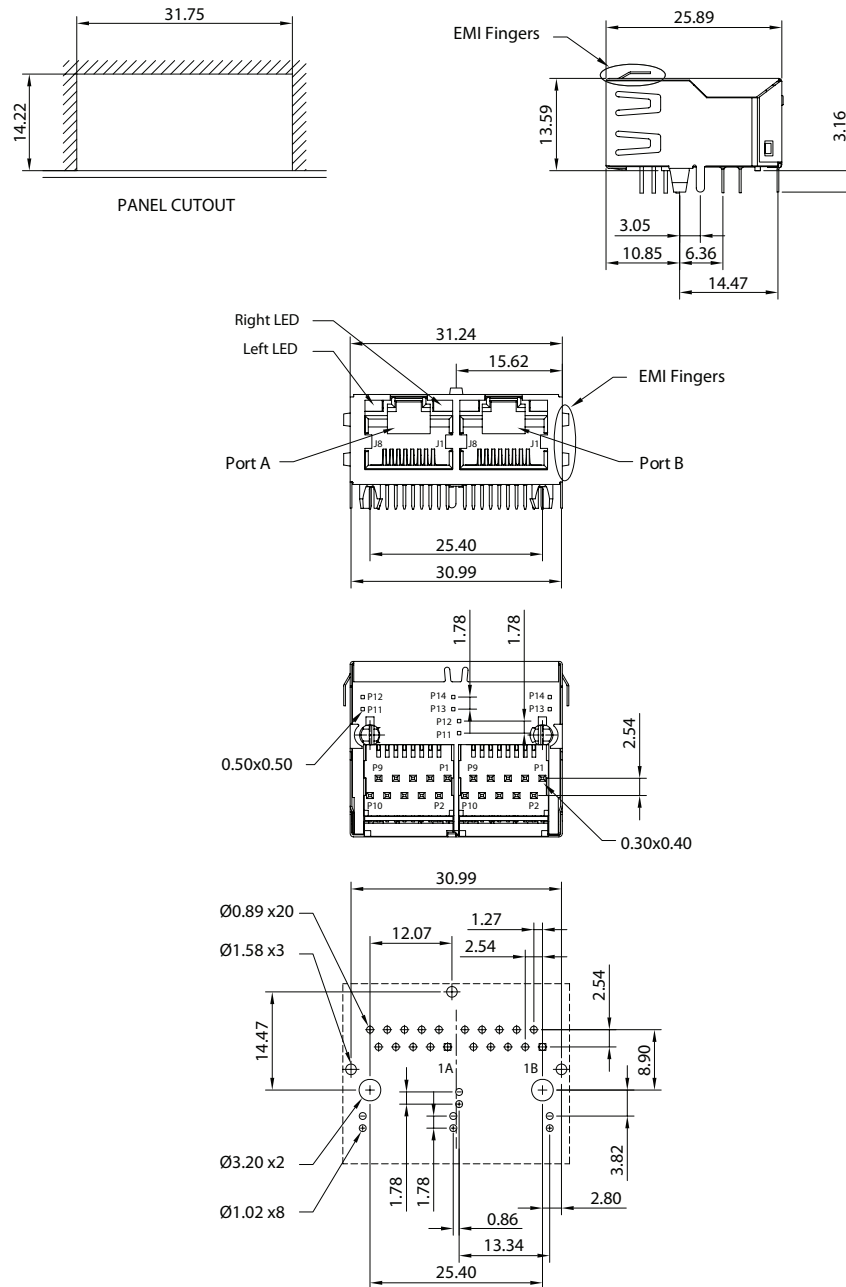
- NOTES : 1. Tolerance : PCB $\pm 0.05\text{mm}$
 Connector $\pm 0.25\text{mm}$
 2. Connector dimensions comply with FCC 68.5 dimension requirements

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CTRJG Series

MECHANICAL

CTRJG26S2xxxxxxx



Suggested PCB Pad Layout
Component Side View

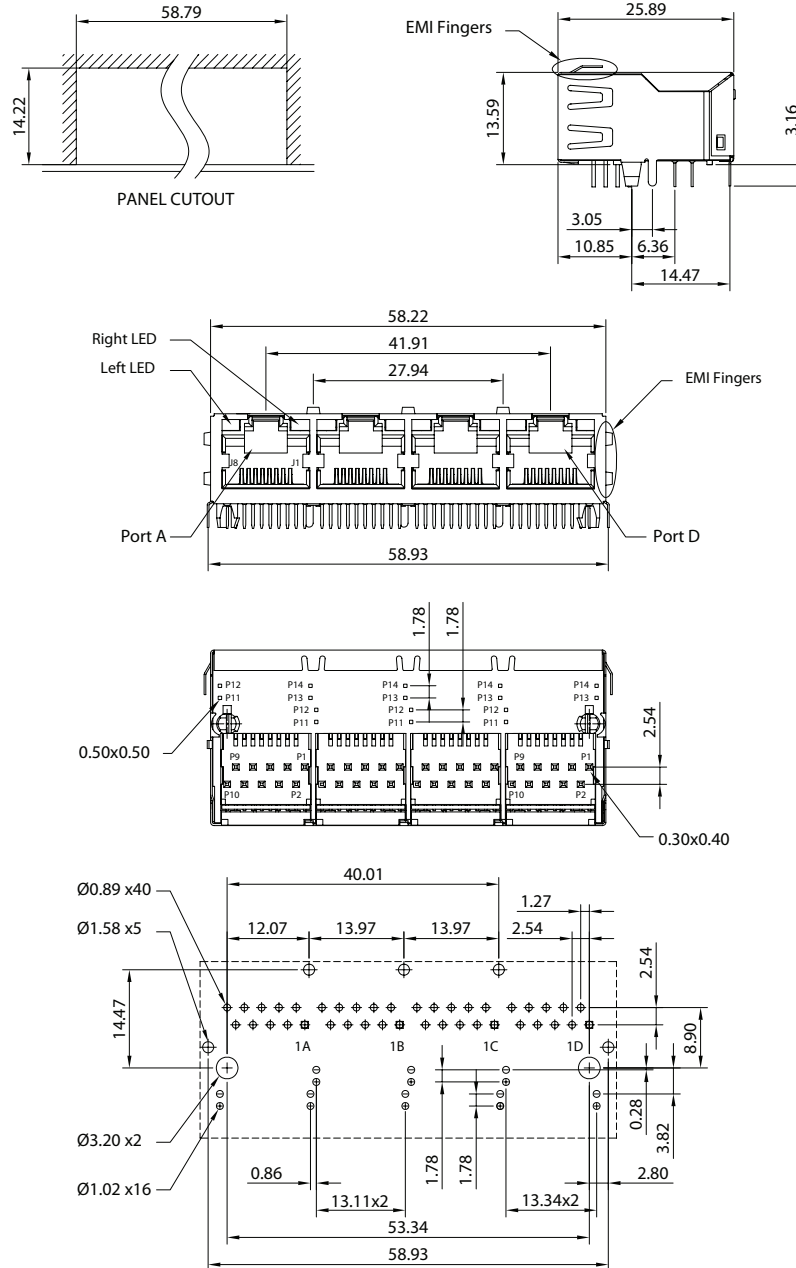
- NOTES : 1. Tolerance : PCB $\pm 0.05\text{mm}$
 Connector $\pm 0.25\text{mm}$
 2. Connector dimensions comply with FCC 68.5 dimension requirements

06.06.07

CTRJG Series

MECHANICAL

CTRJG26S4xxxxxxx



Suggested PCB Pad Layout
Component Side View

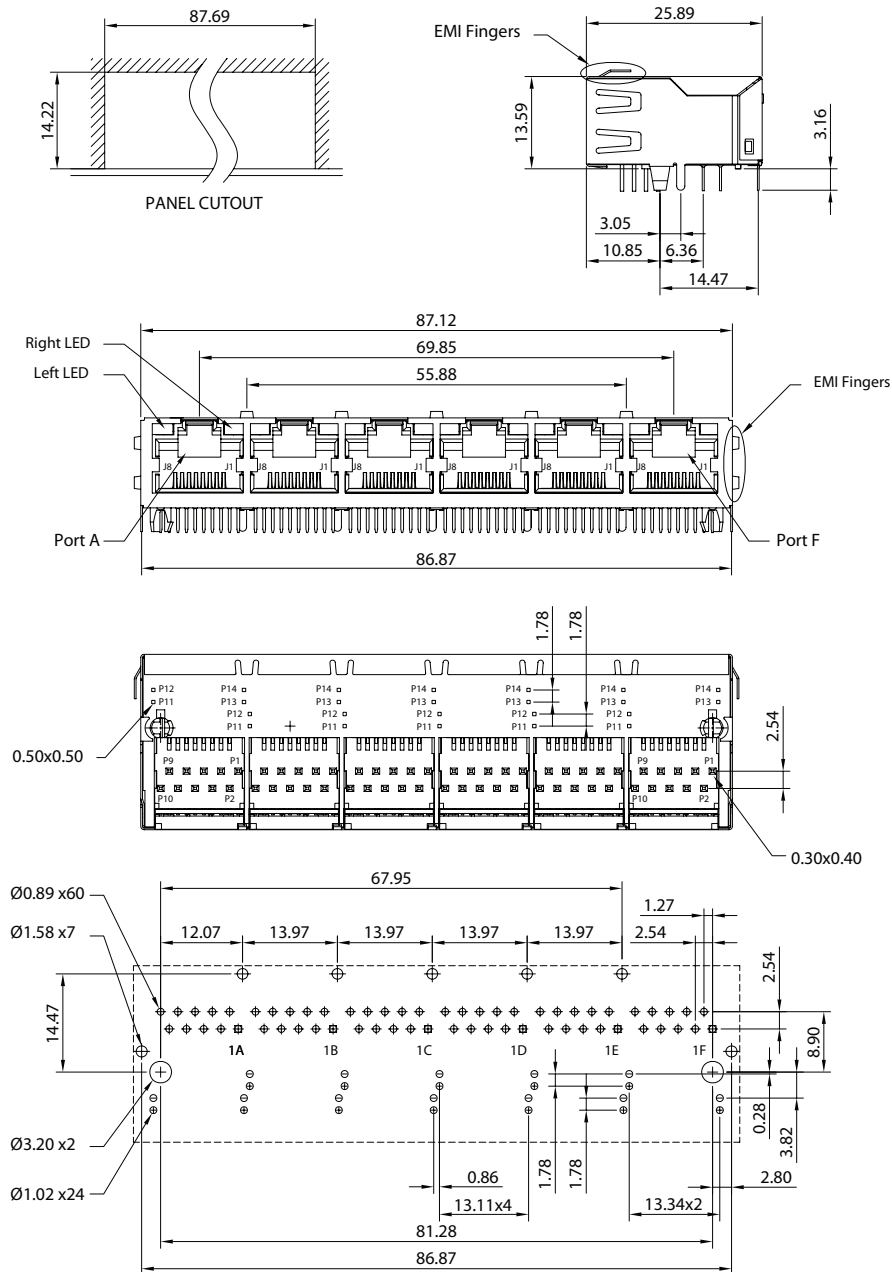
- NOTES : 1. Tolerance : PCB ± 0.05 mm
Connector ± 0.25 mm
2. Connector dimensions comply with FCC 68.5 dimension requirements

06.06.07

CTRJG Series

MECHANICAL

CTRJG26S6xxxxxxx



Suggested PCB Pad Layout
Component Side View

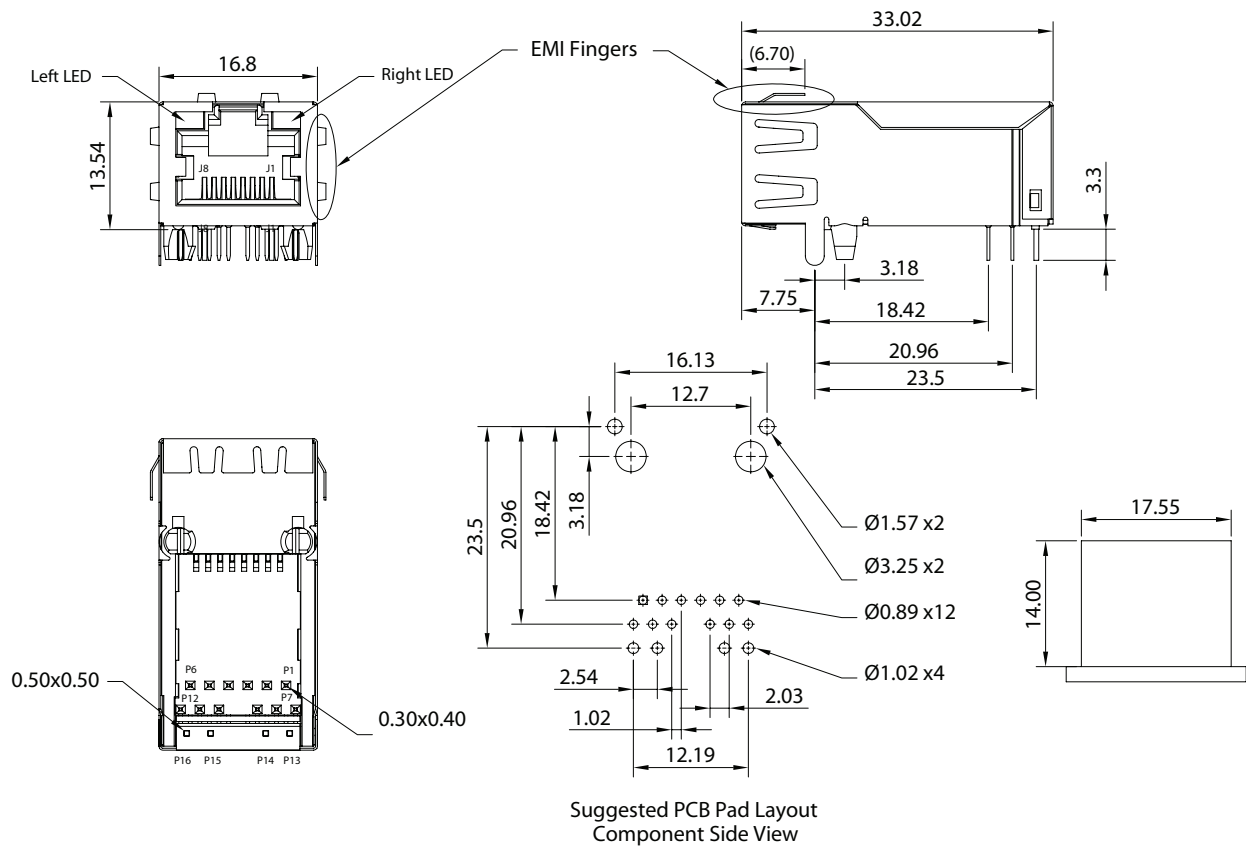
- NOTES : 1. Tolerance : PCB $\pm 0.05\text{mm}$
Connector $\pm 0.25\text{mm}$
2. Connector dimensions comply with FCC 68.5 dimension requirements

06.06.07

CTRJG Series

MECHANICAL

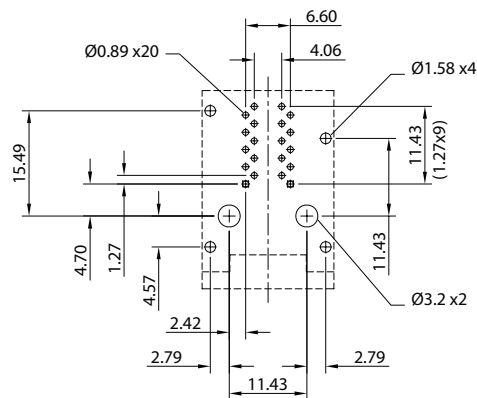
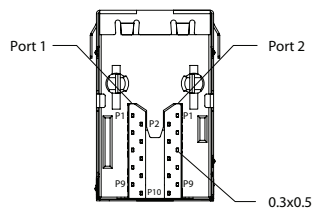
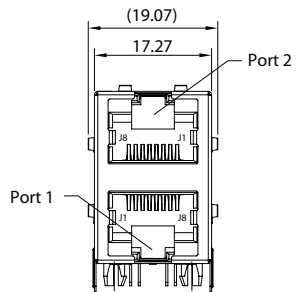
CTRJG33S1xxxxxxx



- NOTES : 1. Tolerance : PCB $\pm 0.05\text{mm}$
 Connector $\pm 0.25\text{mm}$
 2. Connector dimensions comply with FCC 68.5 dimension requirements

06.06.07

A diagram showing a rectangular hole in a wall. The wall is represented by a thick vertical line on the left and a thick vertical line on the right, with diagonal hatching between them. A horizontal dimension line above the hole indicates a width of 18.90. A vertical dimension line to the left of the hole indicates a height of 26.30. The hole is a simple rectangle with a thin black border.



NOTES : 1. Tolerance : PCB $\pm 0.05\text{mm}$
Connector $\pm 0.25\text{mm}$
2. Connector dimensions comply with FCC 68.5 dimension requirements



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800-684-5322 Inside US **949-453-1811** Outside US

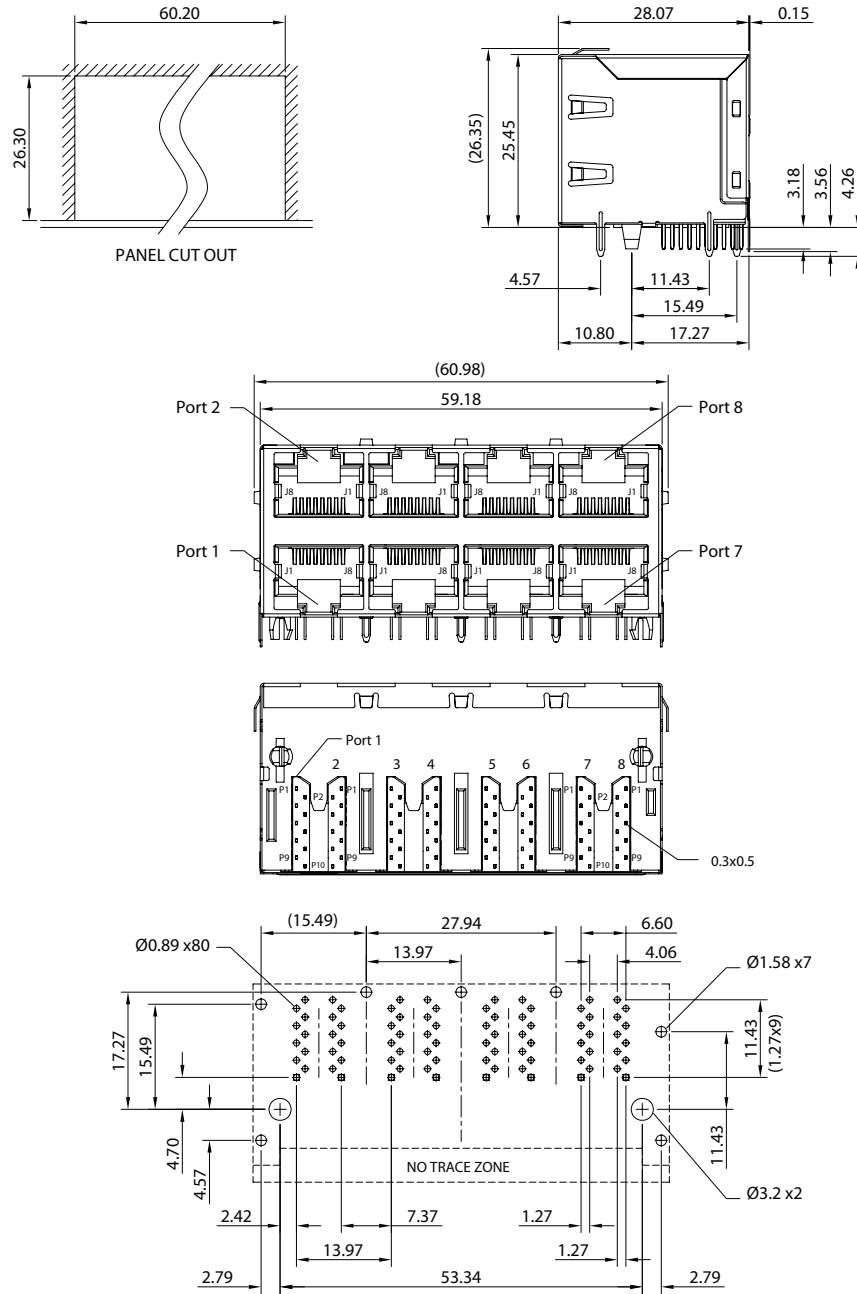
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CTRJG Series

MECHANICAL

CTRJG29D4xxxxxxx



Suggested PCB Pad Layout
Component Side View

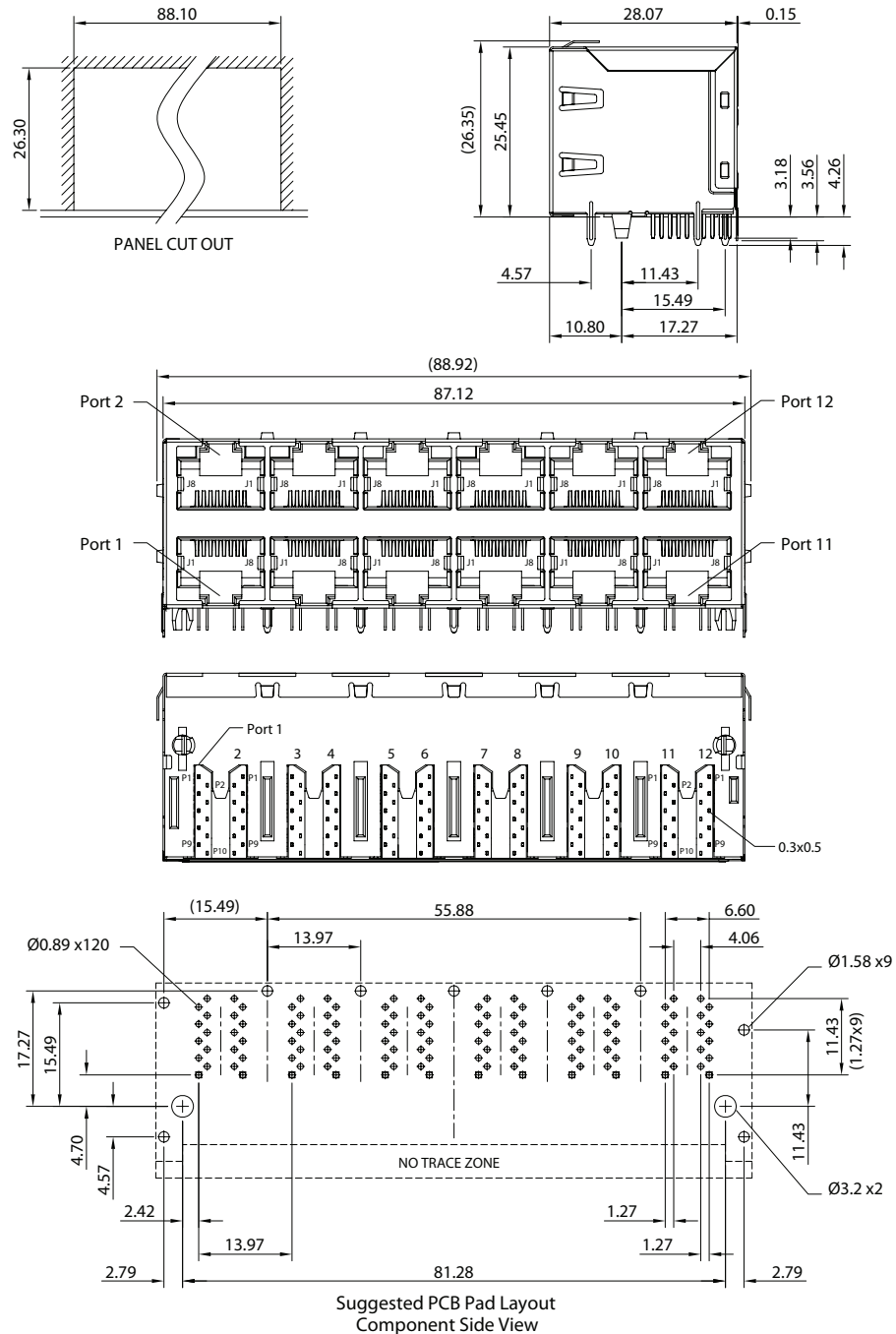
- NOTES : 1. Tolerance : PCB $\pm 0.05\text{mm}$
Connector $\pm 0.25\text{mm}$
2. Connector dimensions comply with FCC 68.5 dimension requirements

06.06.07

CTRJG Series

MECHANICAL

CTRJG29D6xxxxxxx

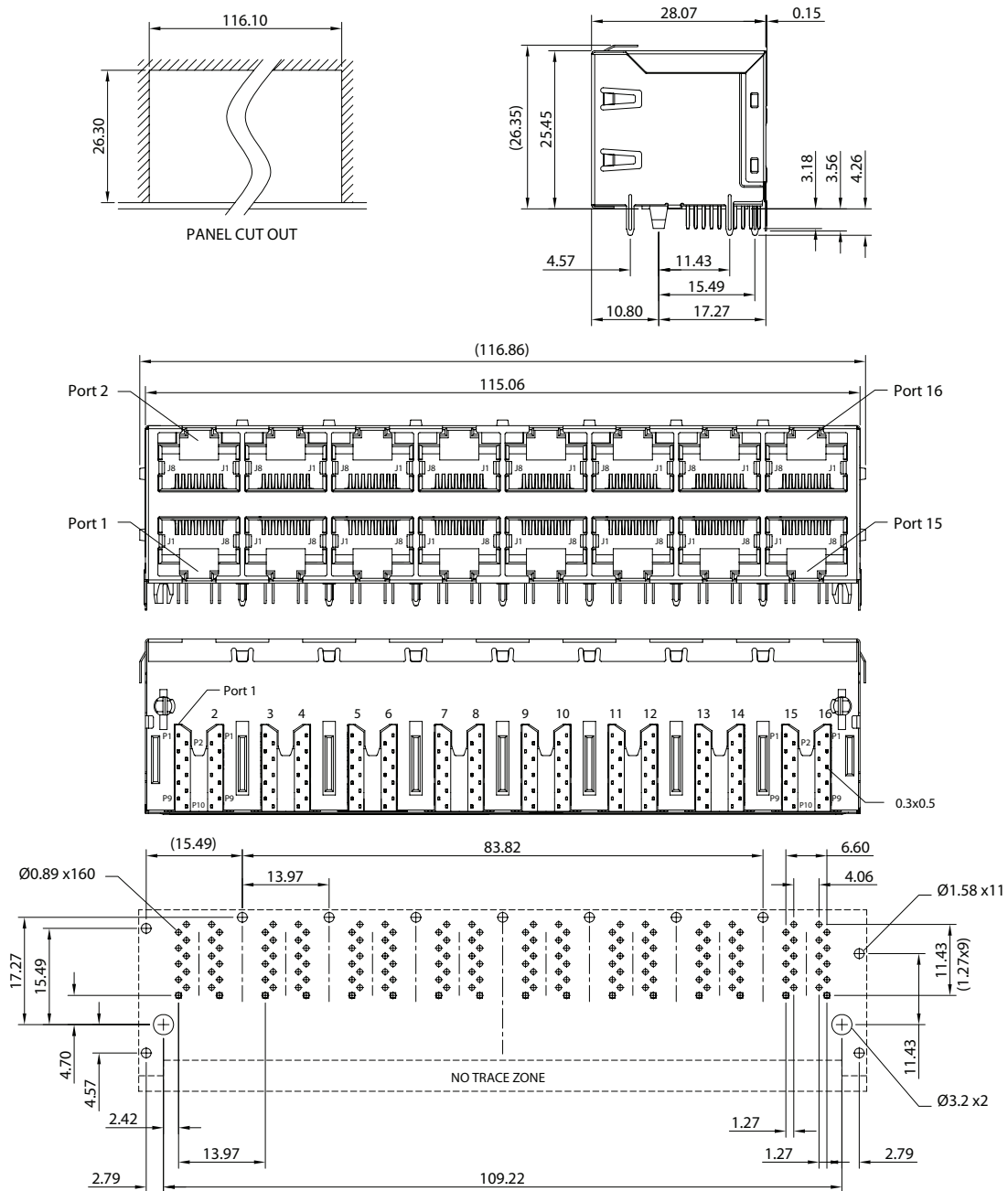


- NOTES : 1. Tolerance : PCB $\pm 0.05\text{mm}$
 Connector $\pm 0.25\text{mm}$
 2. Connector dimensions comply with FCC 68.5 dimension requirements

06.06.07

MECHANICAL

CTRJG29D8xxxxxxxx



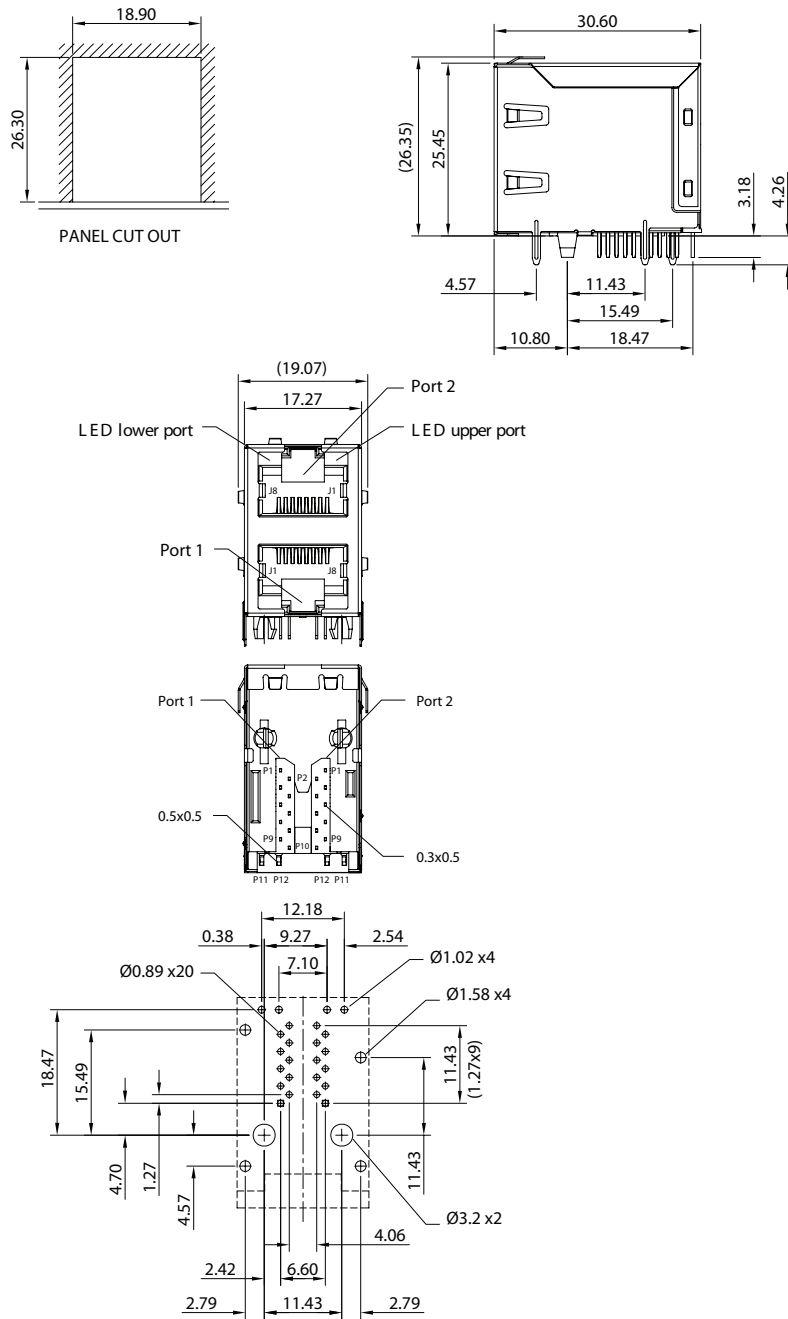
- NOTES : 1. Tolerance : PCB $\pm 0.05\text{mm}$
 Connector $\pm 0.25\text{mm}$
 2. Connector dimensions comply with FCC 68.5 dimension requirements

06.06.07

CTRJG Series

MECHANICAL

CTRJG31D1xxxxxxx



Suggested PCB Pad Layout
Component Side View

- NOTES : 1. Tolerance : PCB $\pm 0.05\text{mm}$
Connector $\pm 0.25\text{mm}$
2. Connector dimensions comply with FCC 68.5 dimension requirements

06.06.07

Figure 1: Dimensions and suggested PCB pad layout for the component. The figure includes three views: a side view of the component, a top view of the component, and a suggested PCB pad layout. The side view shows a component with a width of 60.20 and a height of 26.30. The top view shows a component with a width of 60.98 and a height of 26.35. The suggested PCB pad layout shows a component with a width of 59.18 and a height of 26.35. The layout includes dimensions for the component body, ports, and a 'NO TRACE ZONE'.

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[illegible]

2. Connector dimensions comply with FCC 68.5 dimension requirements



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