

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

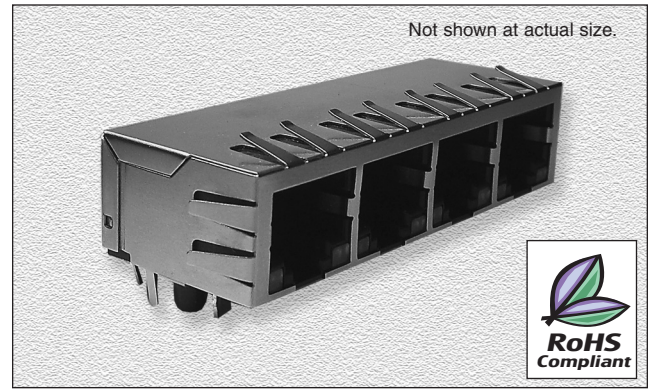
Metal Shell: Copper Alloy, Finish: 50 μ " Nickel

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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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
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CTRJG26S2GGU1015B	1CT:1CT	-	G/G	-	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
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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
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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
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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
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CTRJG31D1GONN1015D	1CT:1CT	-	-	GO/N	-1.0	-	-1.2	-18	-16	-12	-10	-40	-35	-30	-40	-30	1500
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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

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Manufacturer of Passive and Discrete Semiconductor Components

800-684-5322 Inside US

949-453-1811 Outside US

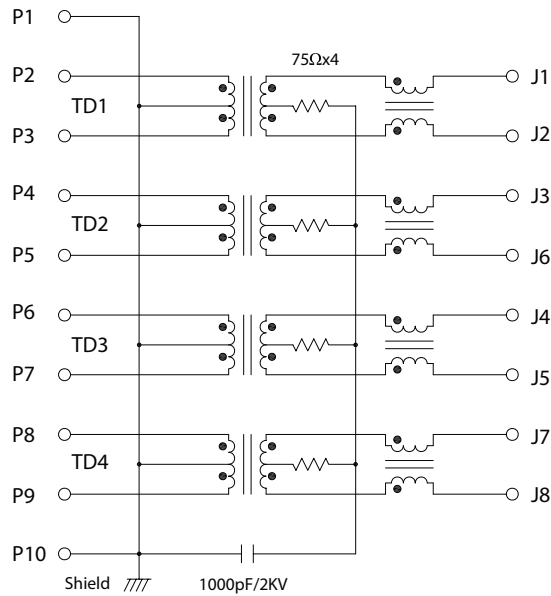
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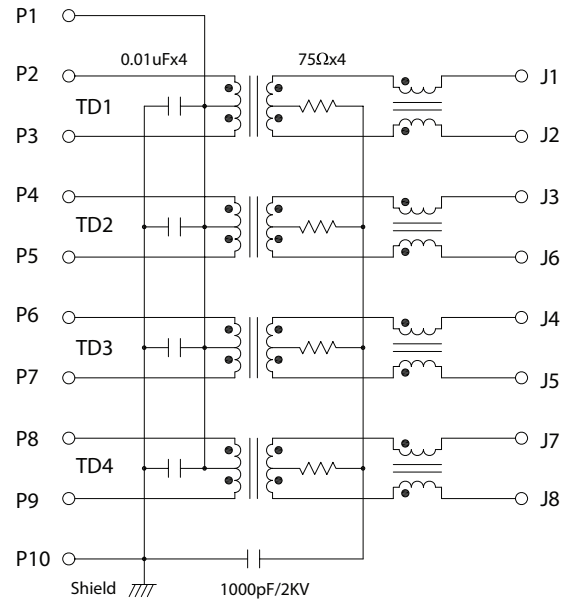
CTRJG Series

SCHEMATICS

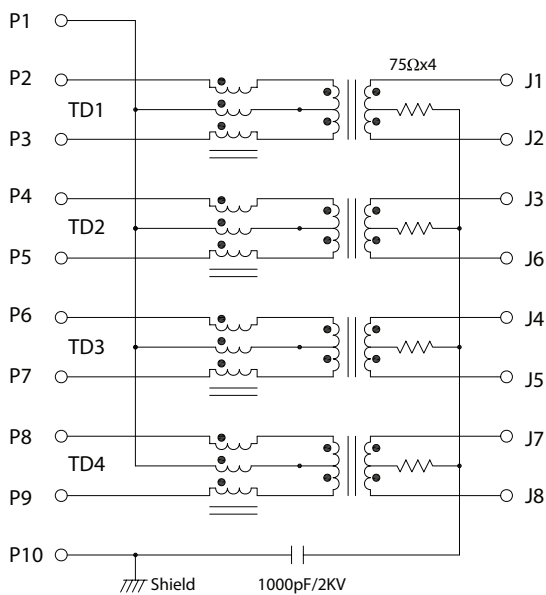
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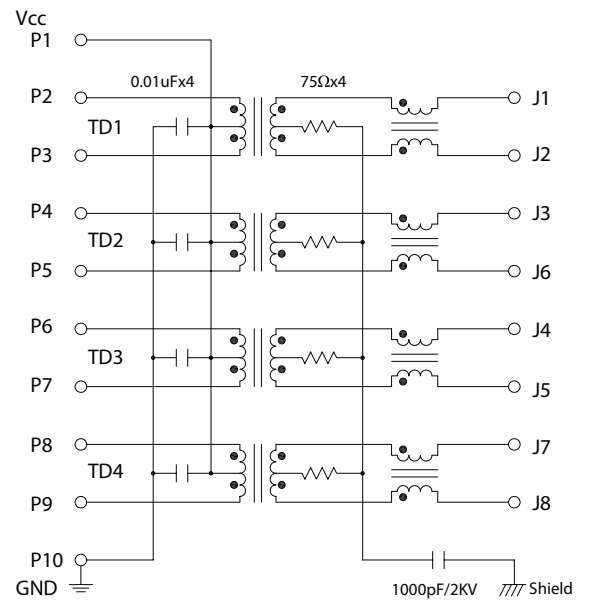
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1003A



1012A

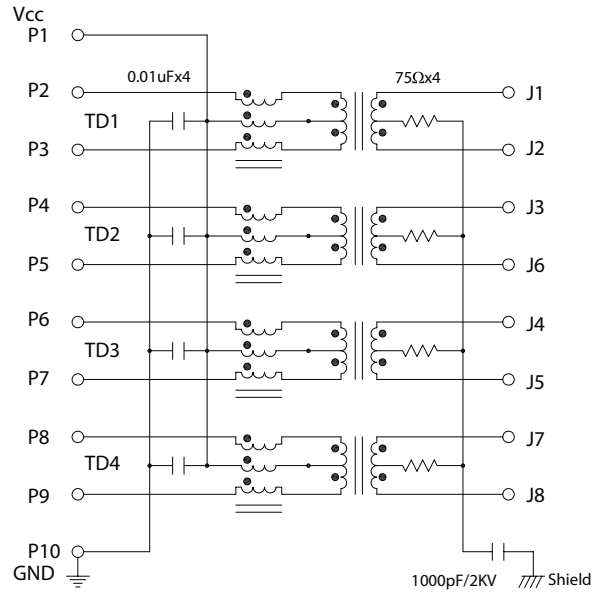


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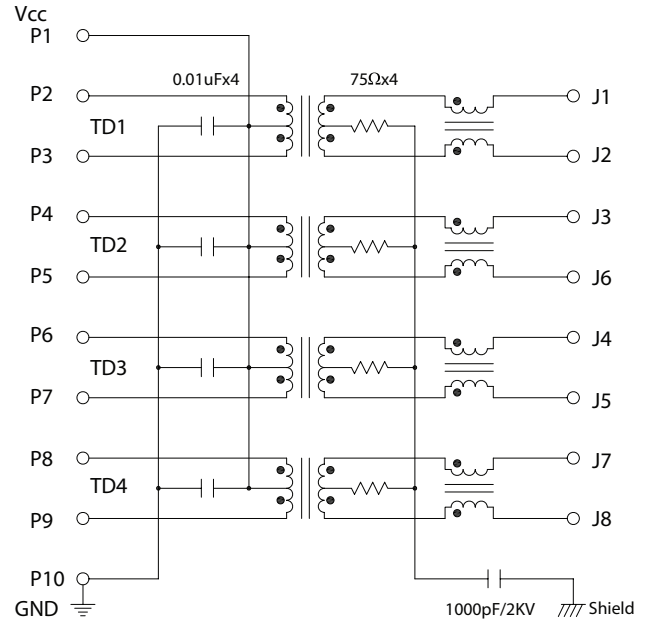
CTRJG Series

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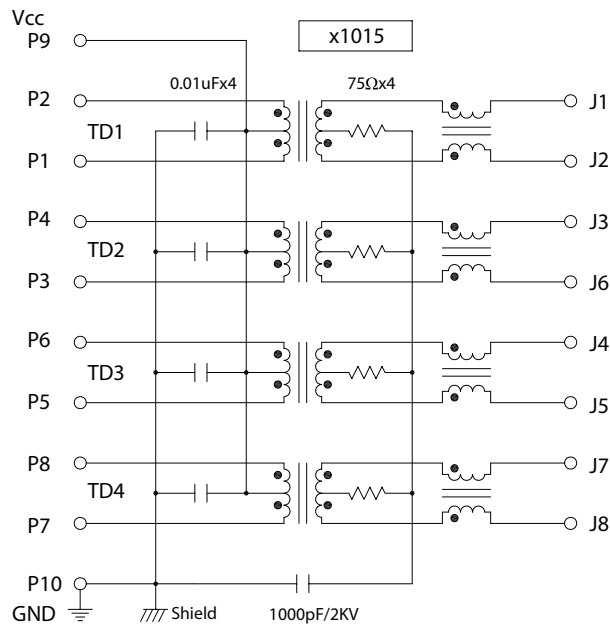
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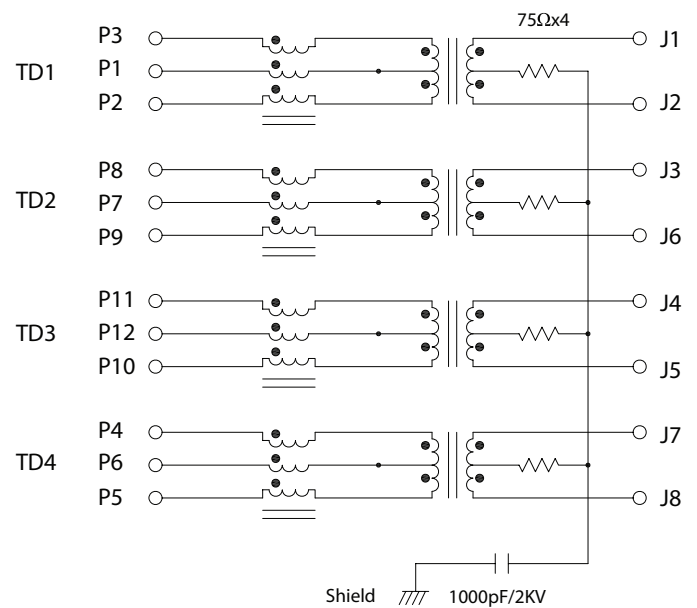
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1015B



1223C

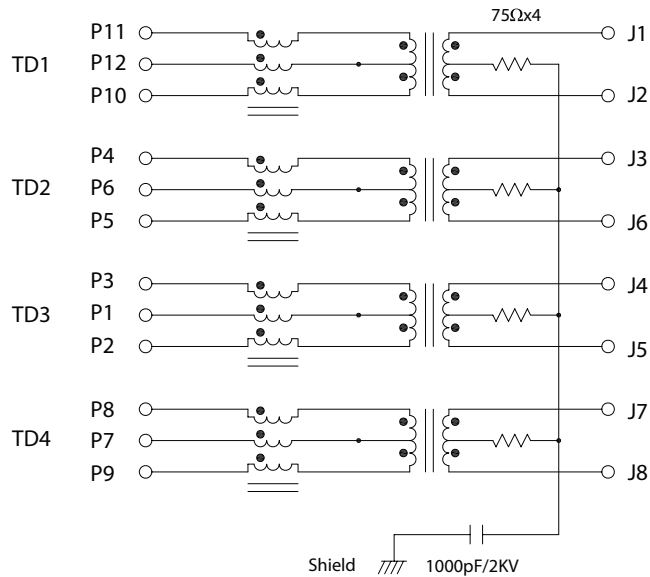


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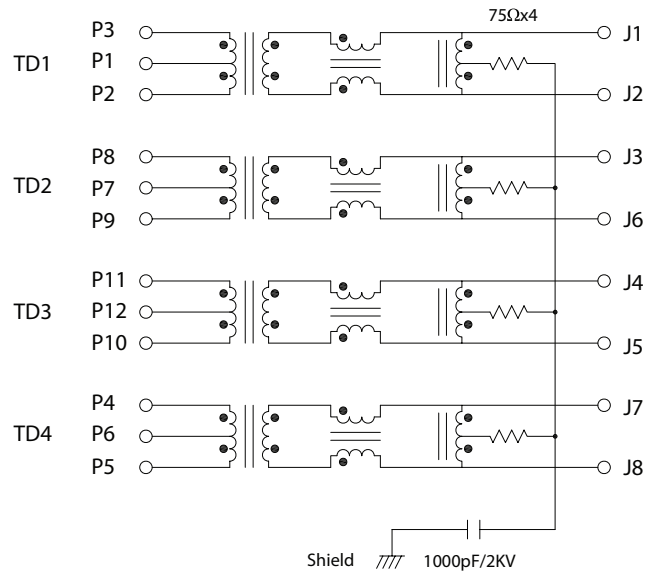
CTRJG Series

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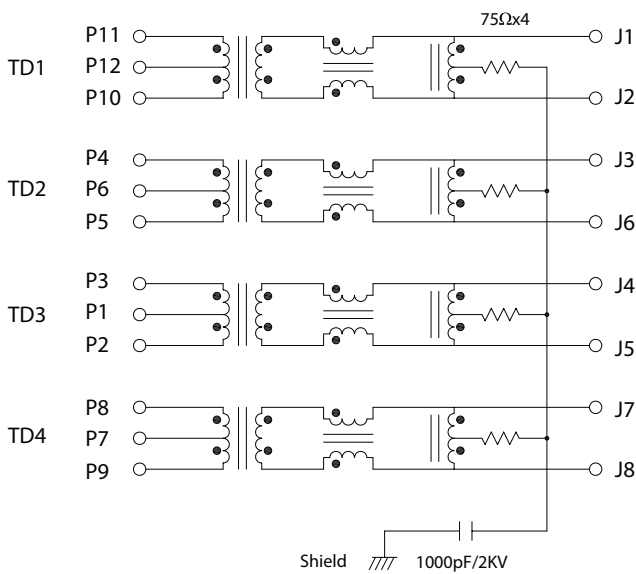
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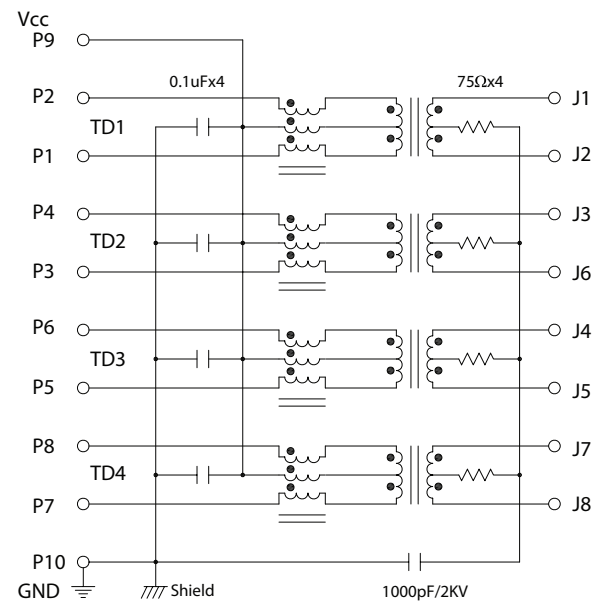
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1227C



1013D

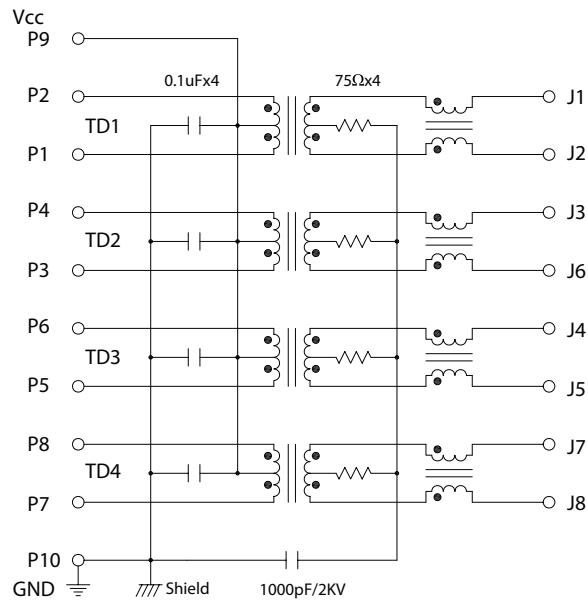


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CTRJG Series

SCHEMATICS

1015D

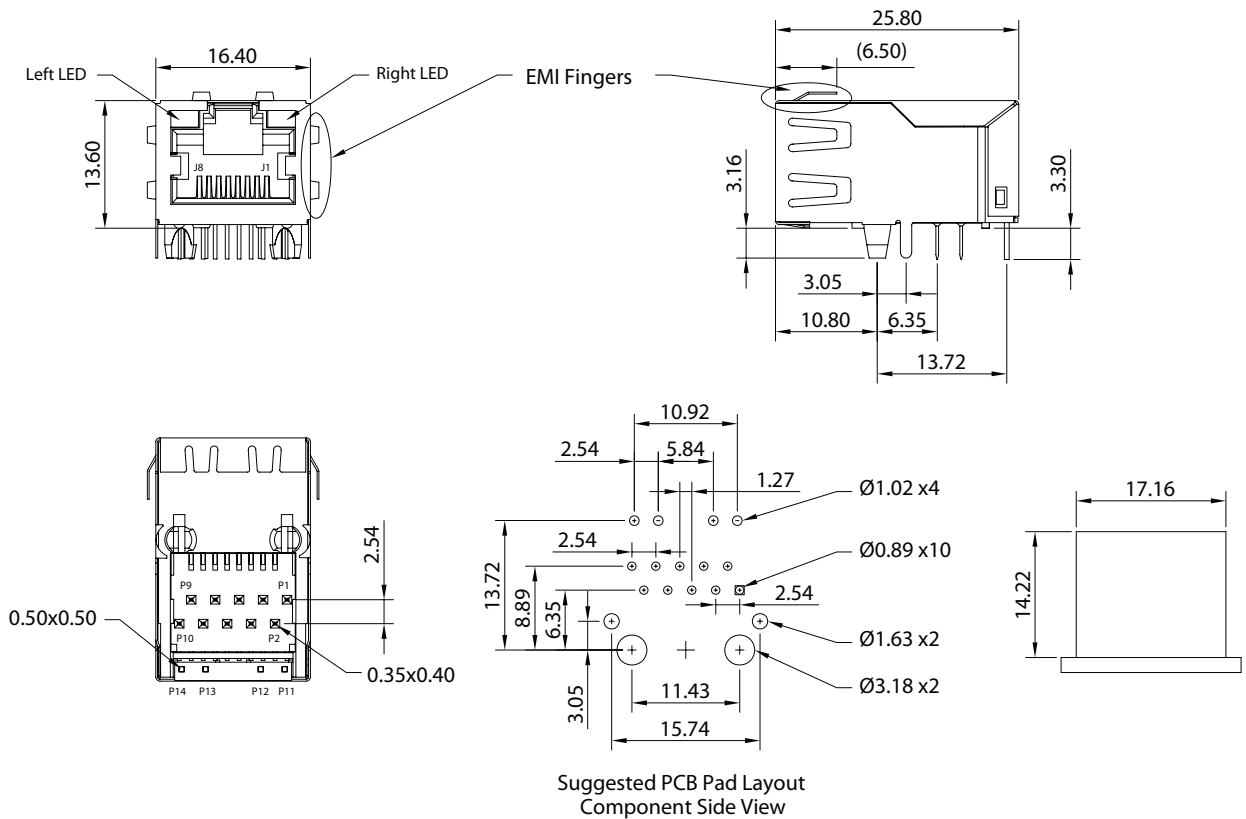


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CTRJG Series

MECHANICAL

CTRJG26S1xxxxxxx



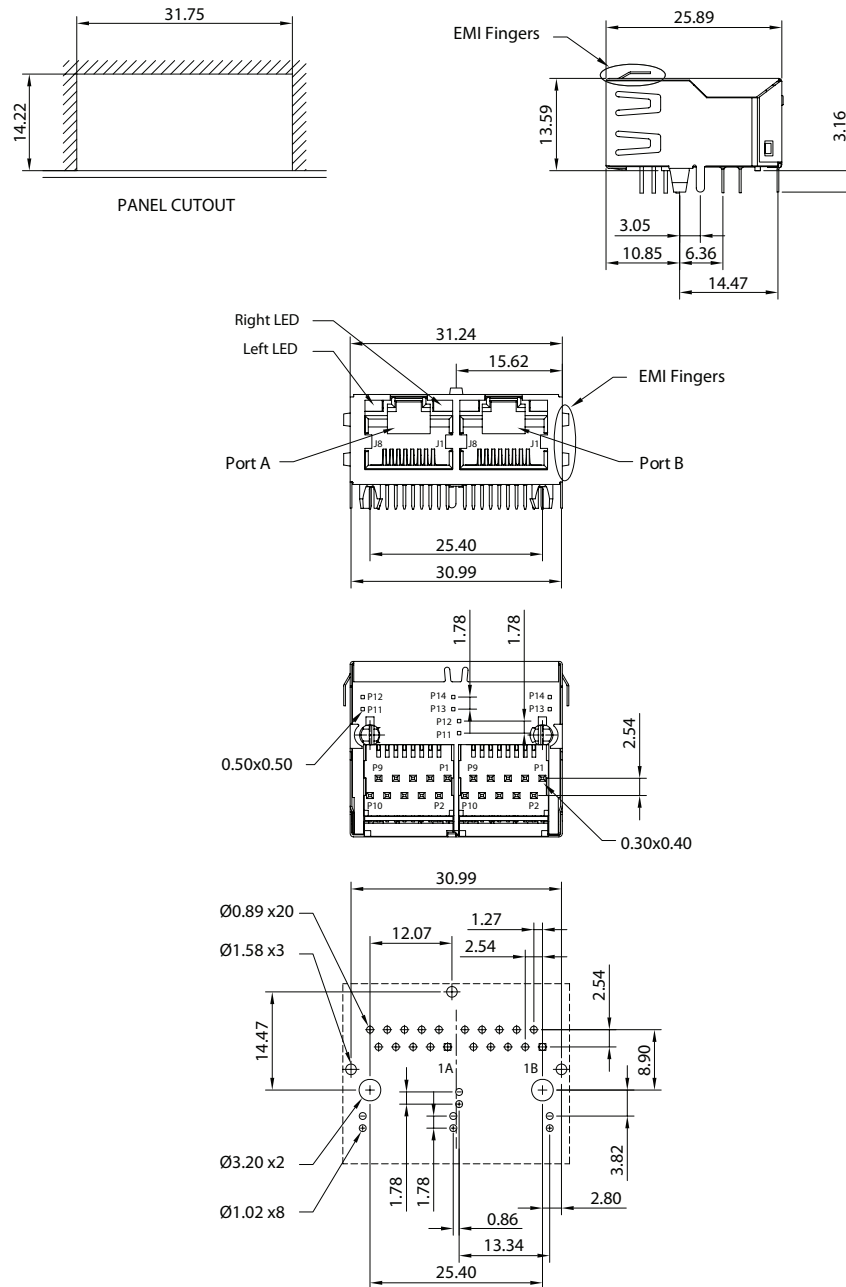
- NOTES : 1. Tolerance : PCB $\pm 0.05\text{mm}$
 Connector $\pm 0.25\text{mm}$
 2. Connector dimensions comply with FCC 68.5 dimension requirements

06.06.07

CTRJG Series

MECHANICAL

CTRJG26S2xxxxxxx



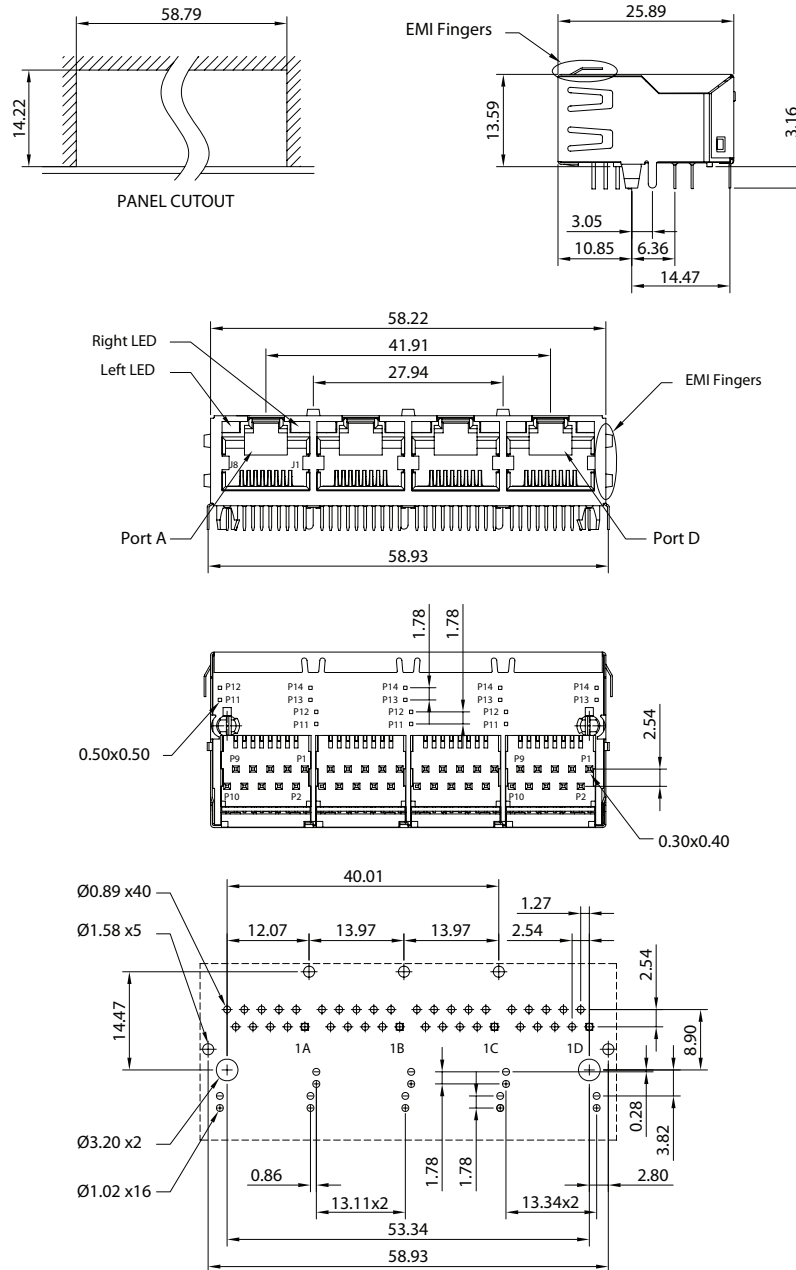
- NOTES : 1. Tolerance : PCB $\pm 0.05\text{mm}$
 Connector $\pm 0.25\text{mm}$
 2. Connector dimensions comply with FCC 68.5 dimension requirements

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CTRJG Series

MECHANICAL

CTRJG26S4xxxxxxx



Suggested PCB Pad Layout
Component Side View

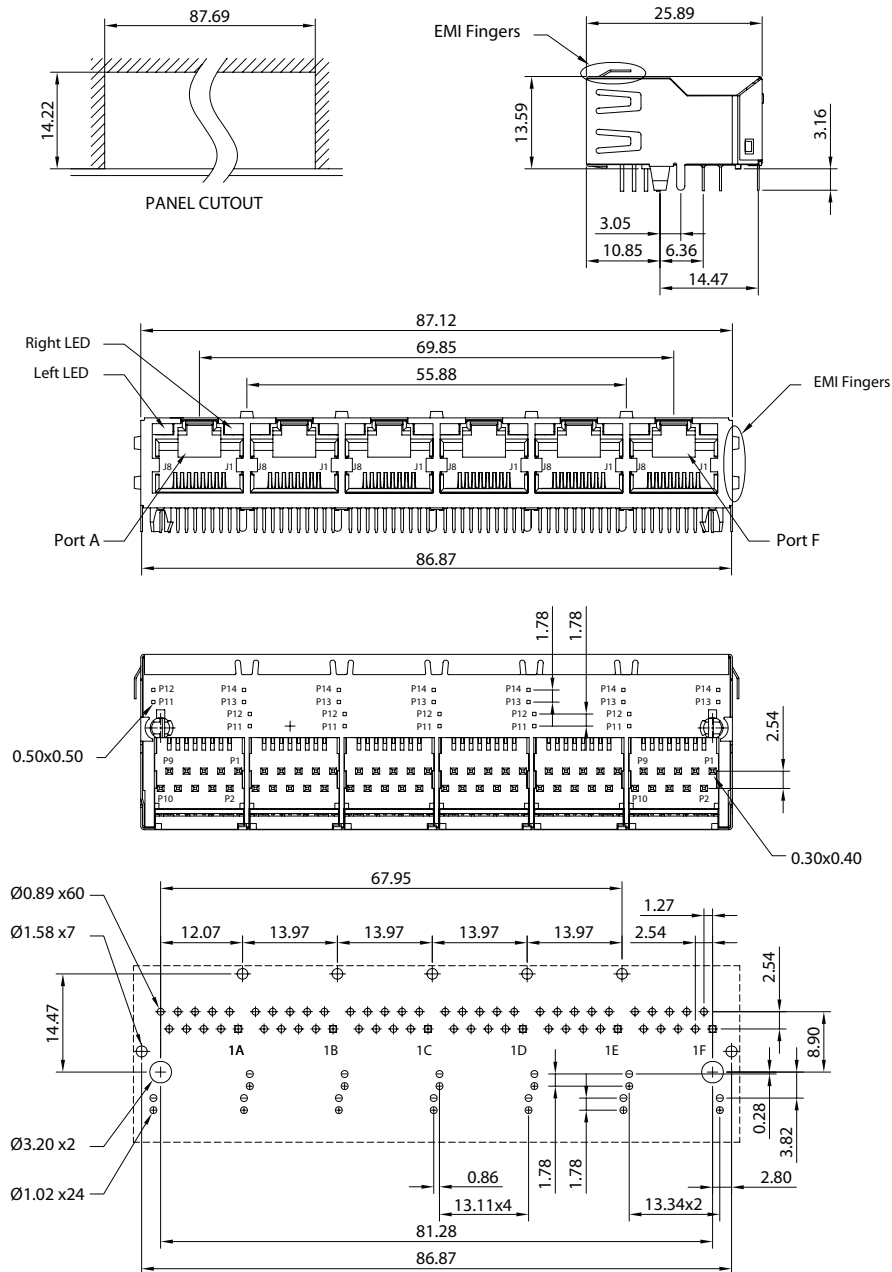
- NOTES : 1. Tolerance : PCB ± 0.05 mm
Connector ± 0.25 mm
2. Connector dimensions comply with FCC 68.5 dimension requirements

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CTRJG Series

MECHANICAL

CTRJG26S6xxxxxxx



Suggested PCB Pad Layout
Component Side View

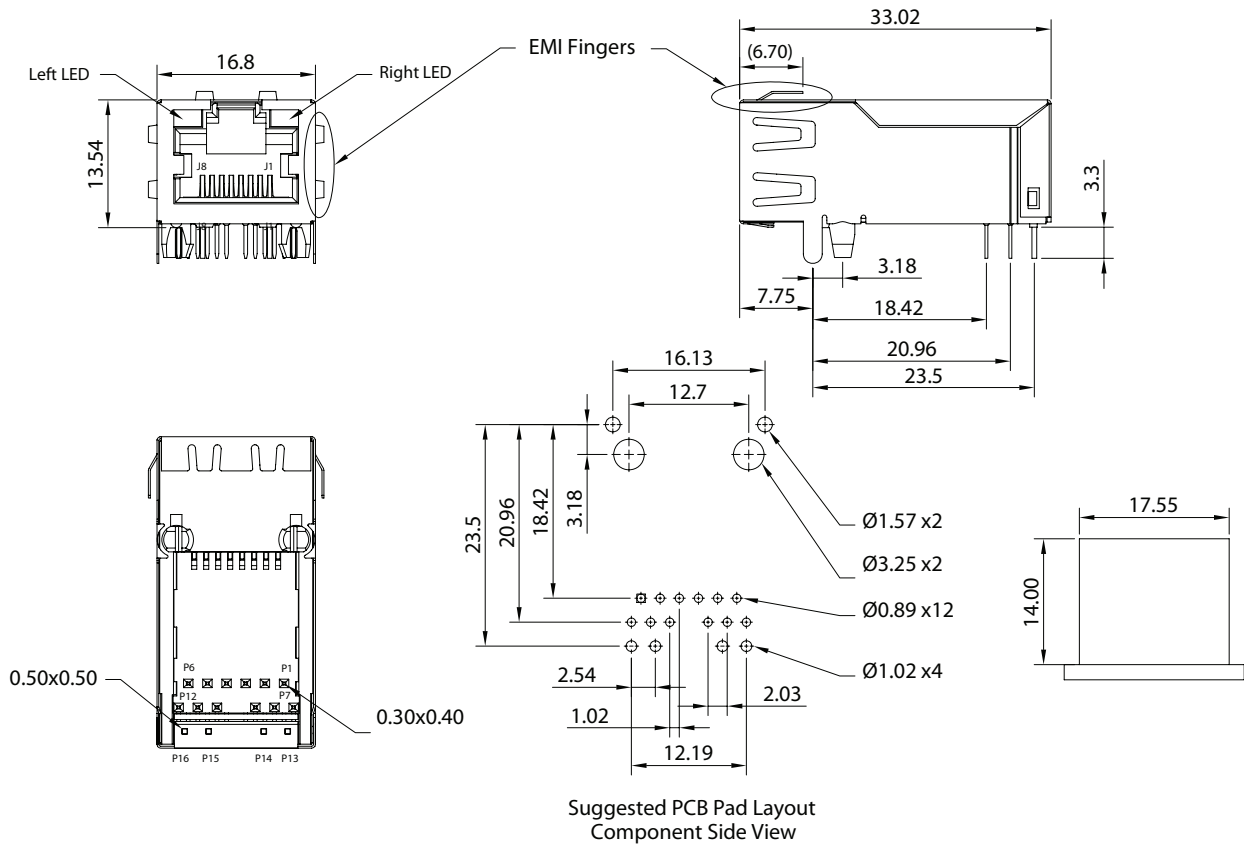
- NOTES : 1. Tolerance : PCB $\pm 0.05\text{mm}$
Connector $\pm 0.25\text{mm}$
2. Connector dimensions comply with FCC 68.5 dimension requirements

06.06.07

CTRJG Series

MECHANICAL

CTRJG33S1xxxxxxx



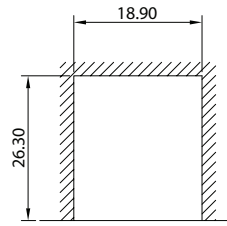
- NOTES : 1. Tolerance : PCB $\pm 0.05\text{mm}$
 Connector $\pm 0.25\text{mm}$
 2. Connector dimensions comply with FCC 68.5 dimension requirements

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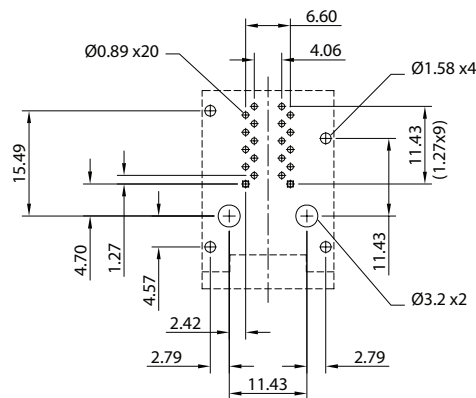
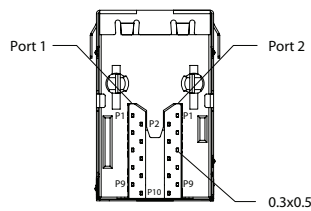
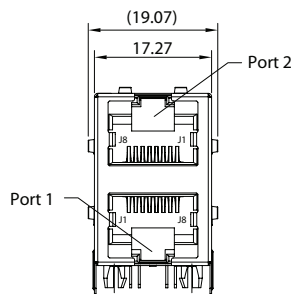
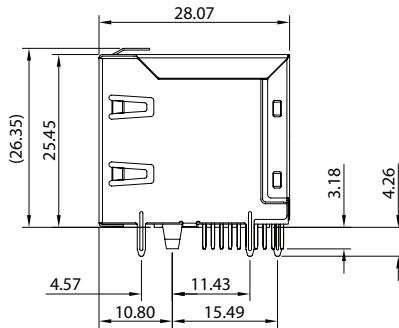
CTRJG Series

MECHANICAL

CTRJG29D1xxxxxxx



PANEL CUT OUT



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

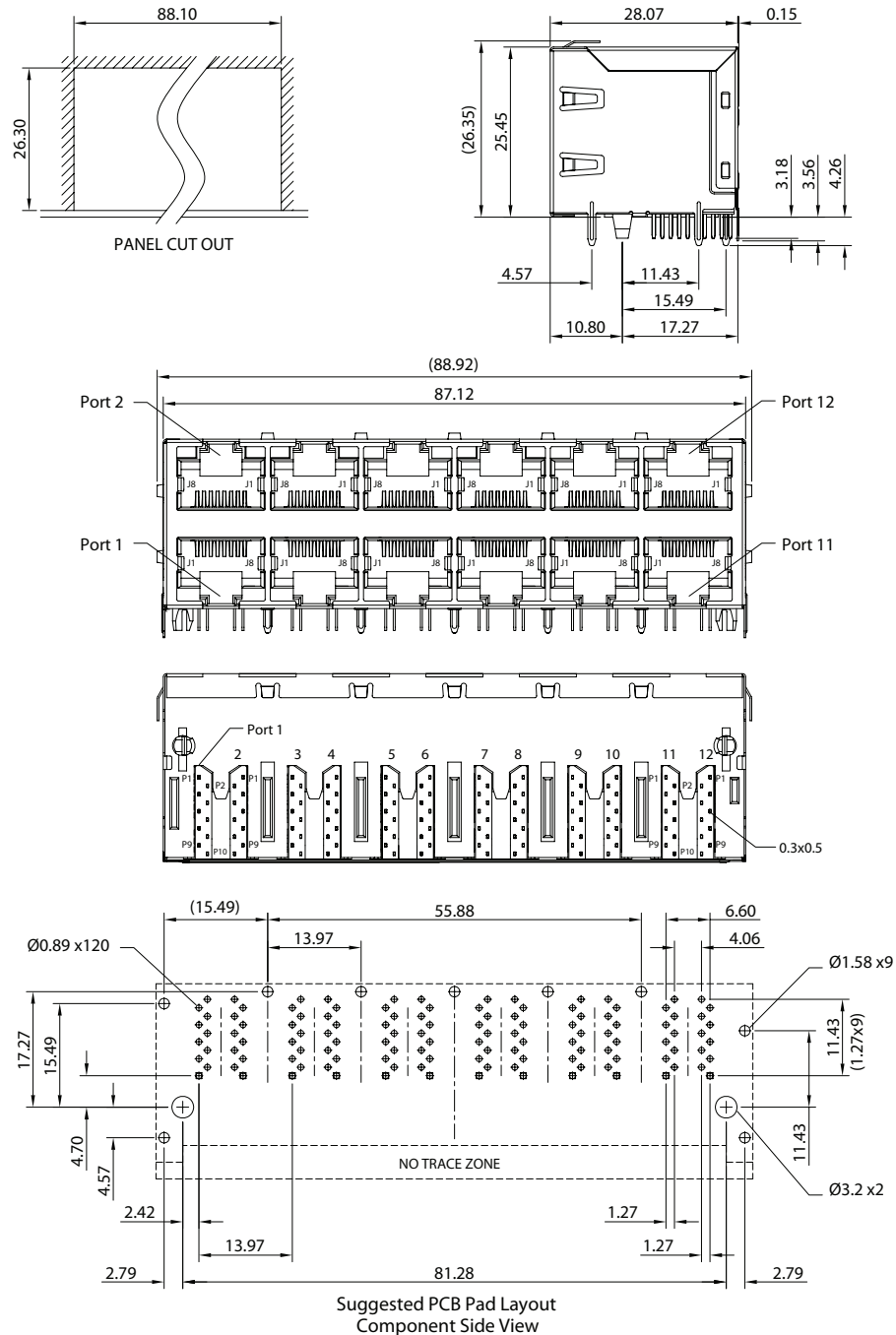
NOTES : 1. Tolerance : PCB $\pm 0.05\text{mm}$
Connector $\pm 0.25\text{mm}$
2. Connector dimensions comply with FCC 68.5 dimension requirements

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CTRJG Series

MECHANICAL

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

[illegible]

Suggested PCB Pad Layout
Component Side View



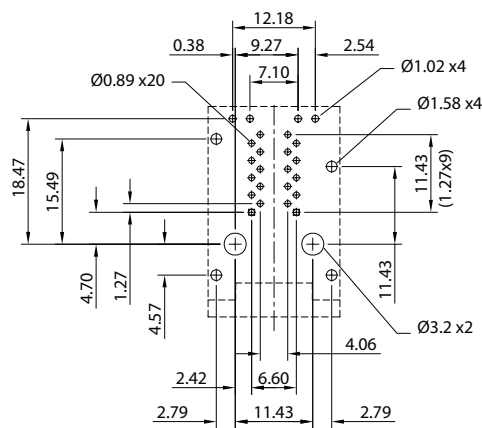
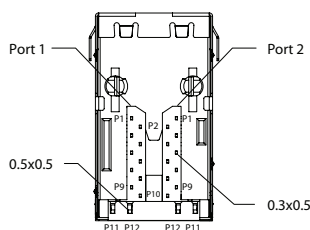
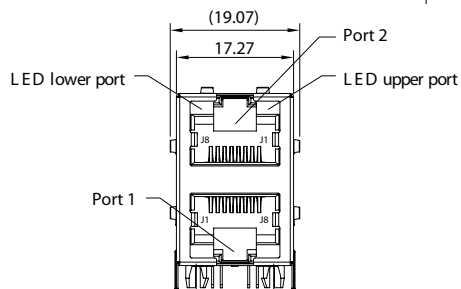
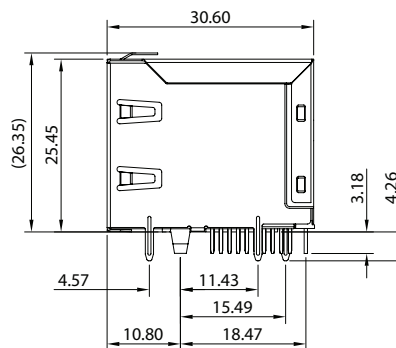
CENTRAL Technologies

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A diagram of a rectangular hole in a plate. The hole is defined by a horizontal dimension of 18.90 and a vertical dimension of 26.30. The area of the hole is shaded with diagonal lines.

PANEL CUT OUT



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 of the component. The figure includes four views: a top view showing a panel cut out with dimensions 60.20 and 26.30; a side view showing a profile with dimensions 30.60, 0.15, 26.35, 25.45, 4.57, 11.43, 15.49, 10.80, 18.47, 3.18, and 4.26; a front view showing ports 1 through 8 and LED upper/lower ports with dimensions 59.18 and 60.98; and a component side view showing a detailed pad layout with dimensions 18.47, 15.49, 4.70, 4.57, 2.42, 2.79, 13.97, 53.34, 1.27, 2.79, 6.60, 4.06, 11.43, 1.27x9, 11.43, 0.38, 1.79, 2.54, 2.54, 0.89, 0.16, 0.158, 0.32, and a 'NO TRACE ZONE'.

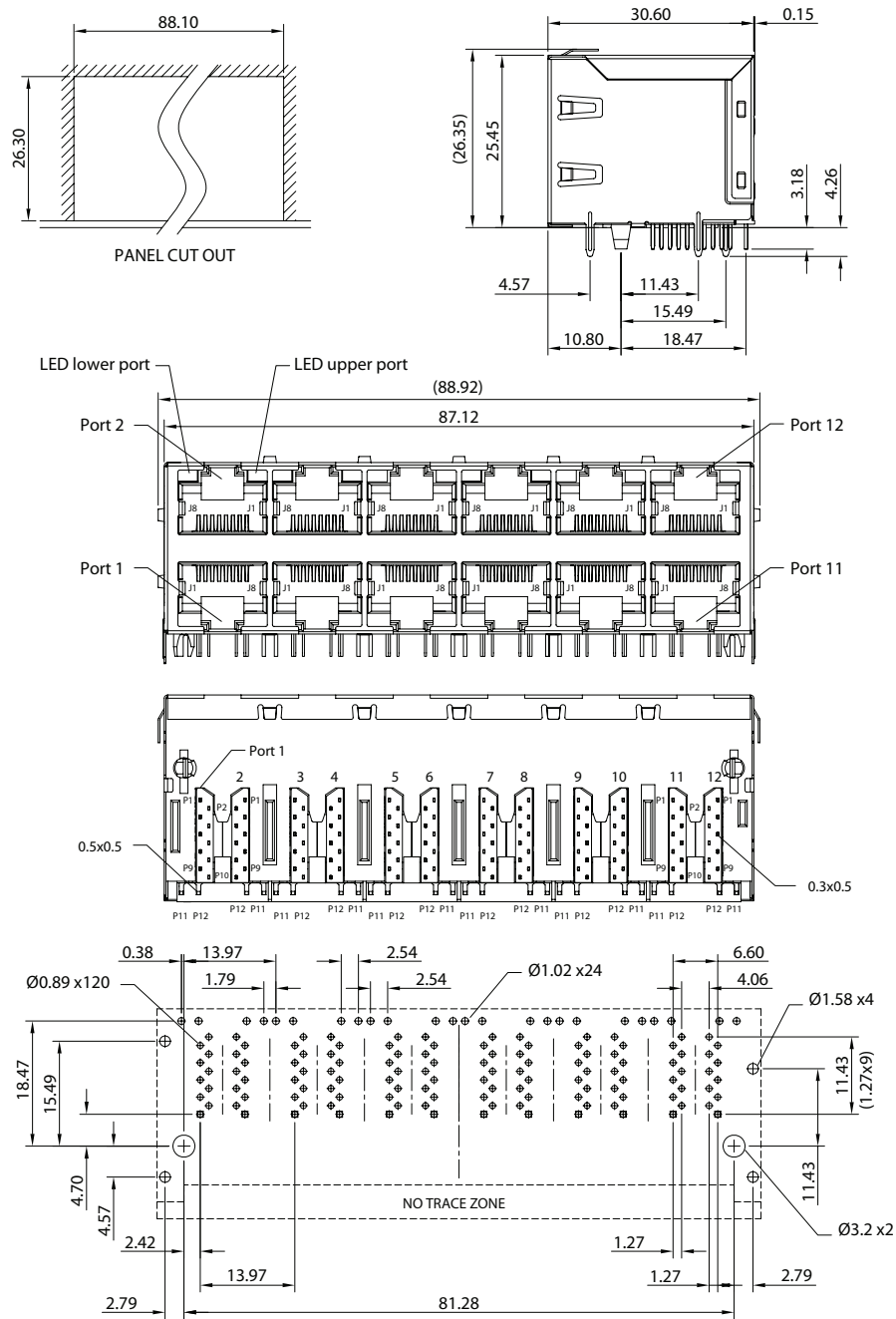
NOTES : 1. Tolerance : PCB $\pm 0.05\text{mm}$
Connector $\pm 0.25\text{mm}$
2. Connector dimensions comply with FCC 68.5 dimension requirements

06.06.07

CTRJG Series

MECHANICAL

CTRJG31D6xxxxxxx



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

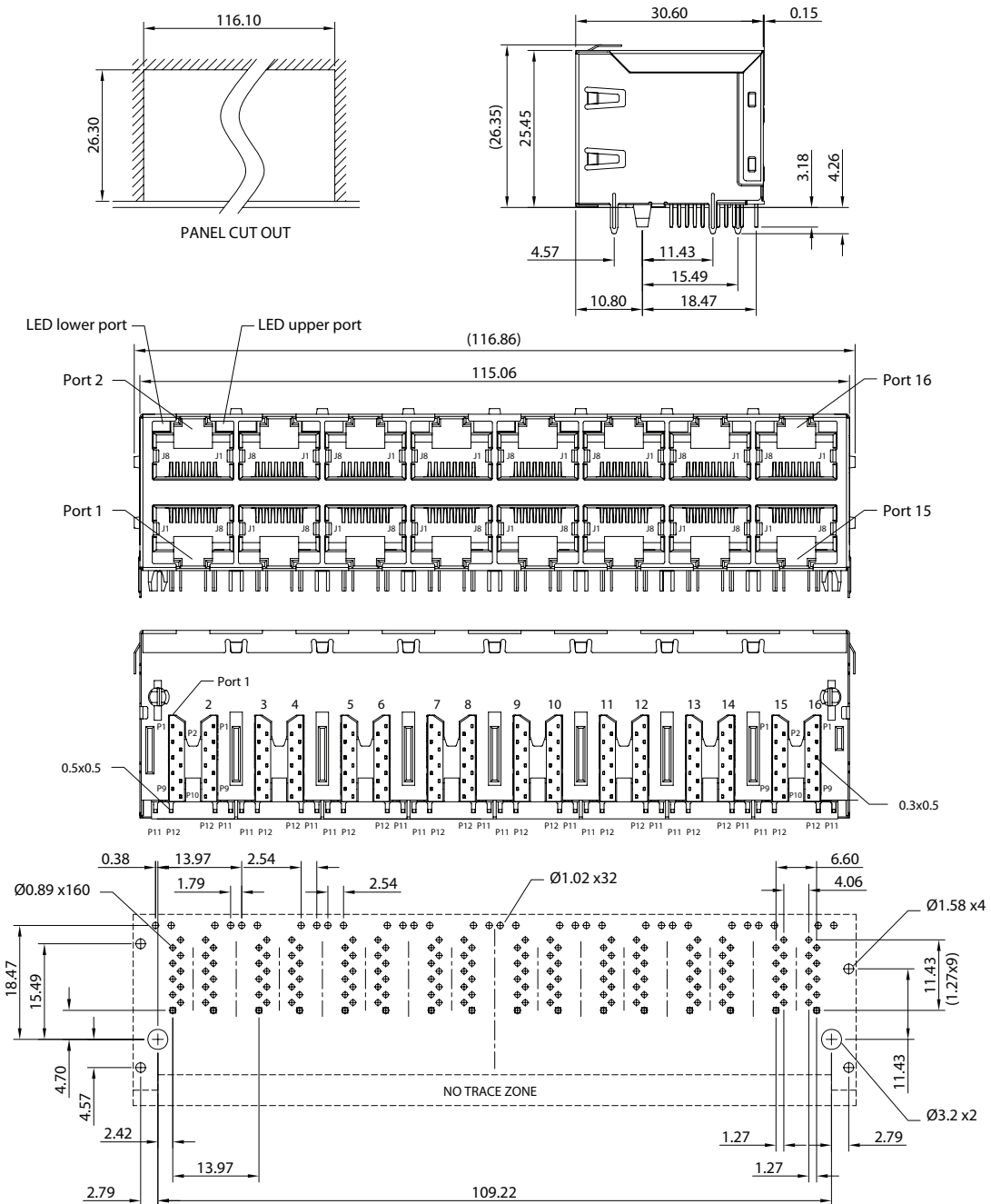
Suggested PCB Pad Layout
Component Side View

06.06.07

CTRJG Series

MECHANICAL

CTRJG31D8xxxxxxx



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

Suggested PCB Pad Layout
Component Side View

06.06.07