



**THE DATASHEET OF  
JG0-0023**



# PULSEJACK™

## 1xN Giggle-Up10








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### Description:





10/100/1000 Base-T RJ45 1xN Tab-UP Integrated Connector Module (ICM) with or without LEDs, designed to support such applications as: SOHO (ADSL modems), LAN-on-Motherboard (LOM), Hub and Switches.

### Features and Benefits:



-  1xN Tab-UP 10-pin RJ45 with internal magnetics
-  Options: 1x2, 1x4, and 1x6 10/100/1000 Base-T
-  Available with or without LEDs
-  Suitable for CAT 5 & 6 Fast Ethernet Cable or better UTP
-  Internal magnetics are 100% electrically tested for HI-POT and functionality - Minimum 1500Vrms isolation per IEEE 802.3 requirements

### Electrical Performance Summary:

-  Internal magnetics options available
-  Meets IEEE 802.3 specification
-  350µH minimum OCL with 8mA bias current
-  High performance for maximum EMI suppression

### Electrical Specifications @ 25°C — Operating Temperature 0°C to +70°C

Part Number	Tab Option	LEDs <sup>3</sup> L/R	Insertion Loss TX/RX (dB TYP)	Return Loss (dB TYP)				Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)		Hipot (MIN)
				1-100 MHz	1-10 MHz	30 MHz	60-80 MHz	1-10 MHz	30-60 MHz	60-100 MHz	1-125 MHz	125-500 MHz	
JG0-0023 (1x2)	UP	G/G	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500 Vrms	
JG0-0024 (1x2)	UP	G/G	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500Vrms	
JG0-0025 (1x4)	UP	G/G	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500Vrms	
JG0-0026 (1x4)	UP	G/G	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500Vrms	
JG0-0027 (1x6)	UP	G/G	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500Vrms	
JG0-0028 (1x8)	UP	G/G	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500Vrms	

#### Notes:

1. Both transmit and receive channels meet IEEE 802.3 specifications.
2. Different electrical and mechanical specifications can be accommodated. Contact Pulse Applications Engineering.
3. LEDs Left/Right: G = green.

### RJ45 Durability Testing Rating

Part Number	Mating Force (MAX)	Unmating Force (MAX)	Durability	Plug to Jack Retention (MIN)
JG Series	5 lbs./2.268 kgs.	5 lbs./2.268 kgs.	750 Insertions	20 lbs./9.072 kgs.

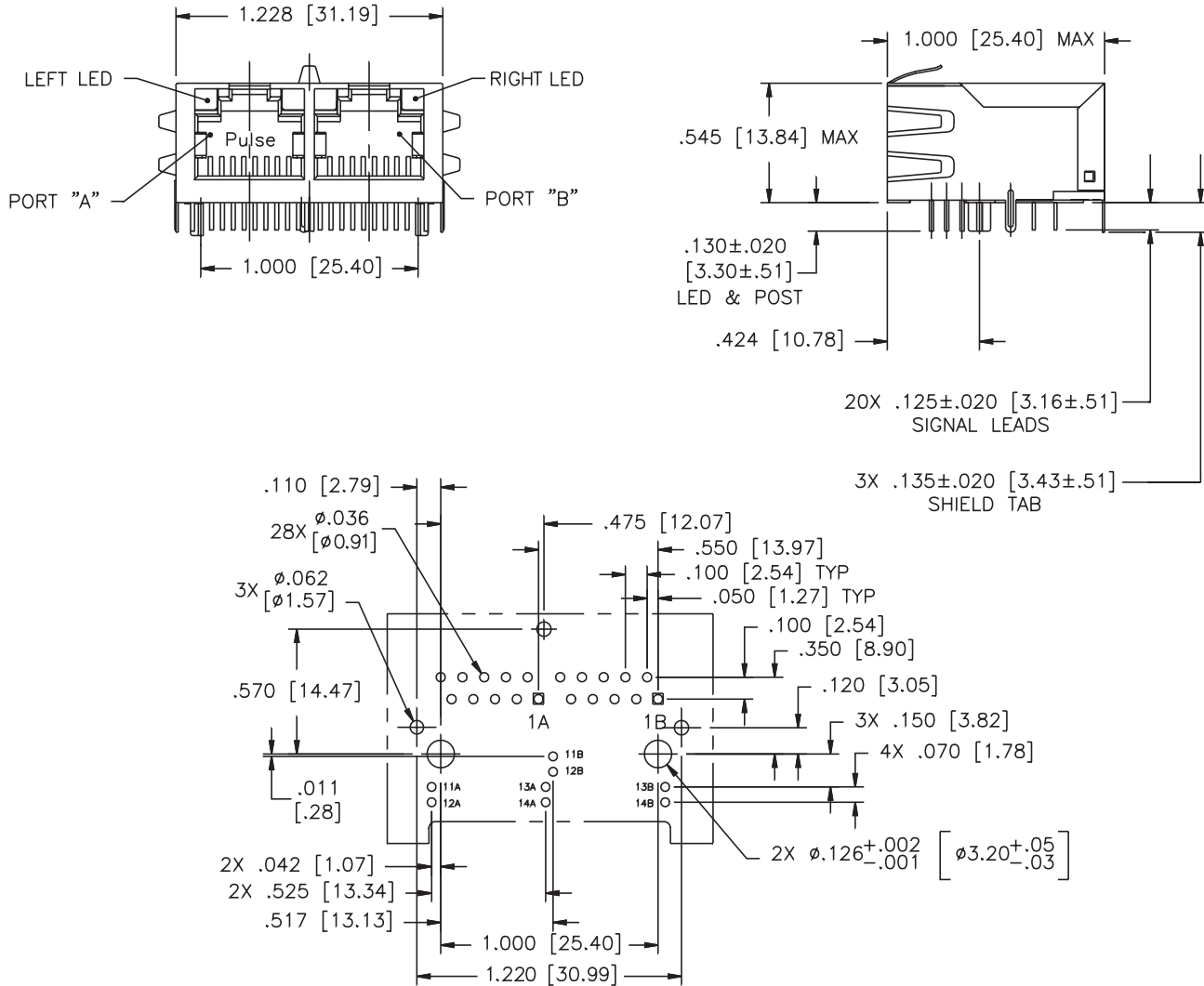
### RJ45 Material Specification

Part Number	Shield		Contact			Housing		MSL <sup>3</sup> Rating
	Material	Finish	Material	Plating Area	Solder Area	Material	Specification	
JG Series	Brass	20-40µ inches thick nickel over Brass	Phosphor Bronze	30µ inches gold over 30-80µ inches nickel	75-300µ inches tin-lead over 75-300µ inches nickel	Thermoplastic	UL 94 V-0	1

1. All connector part numbers starting with the series prefix JG comply to the above limits.
2. Connector dimensions comply with FCC part 68 dimension requirements.
3. MSL = Moisture Sensitivity Level rating from 1 to 5 (highest rating = 1, lowest rating = 5).

### Mechanical

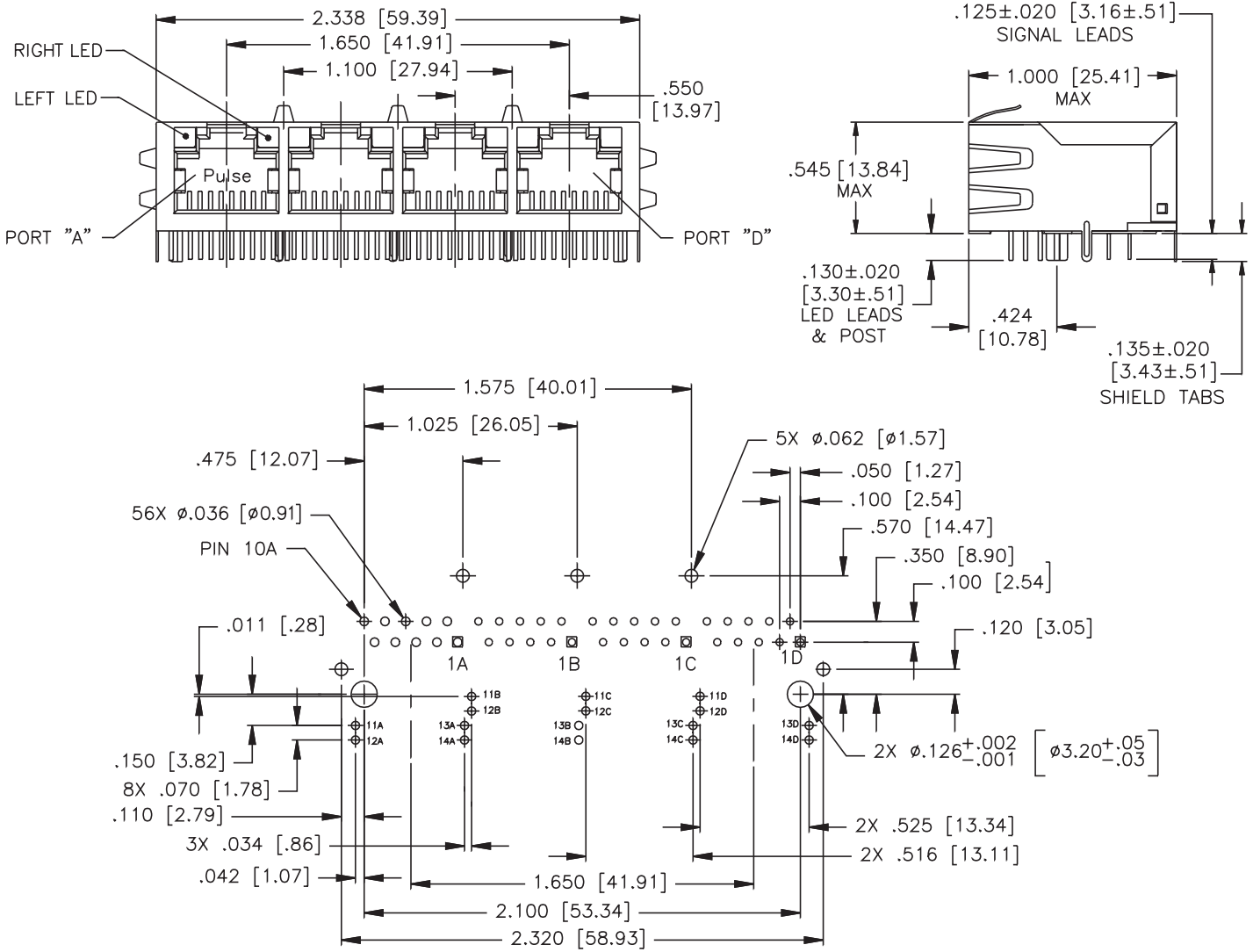
JG0-0023/24



SUGGESTED PC BOARD LAYOUT VIEWED FROM COMPONENT SIDE  
 PCB LAYOUT DIMENSIONS TO BE  $\pm .003$  UNLESS OTHERWISE SPECIFIED

### Mechanical

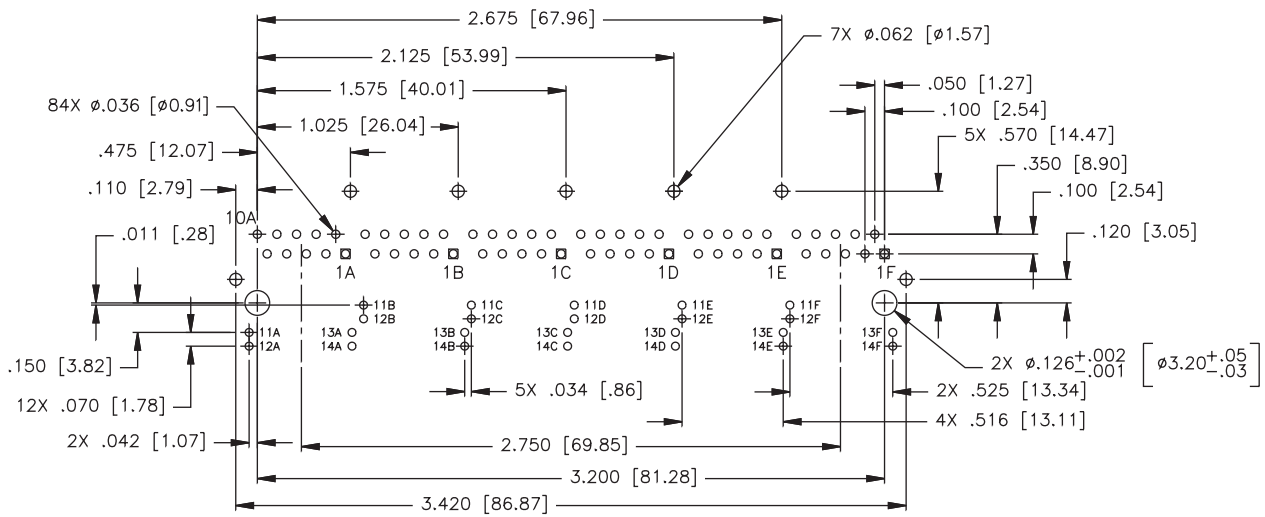
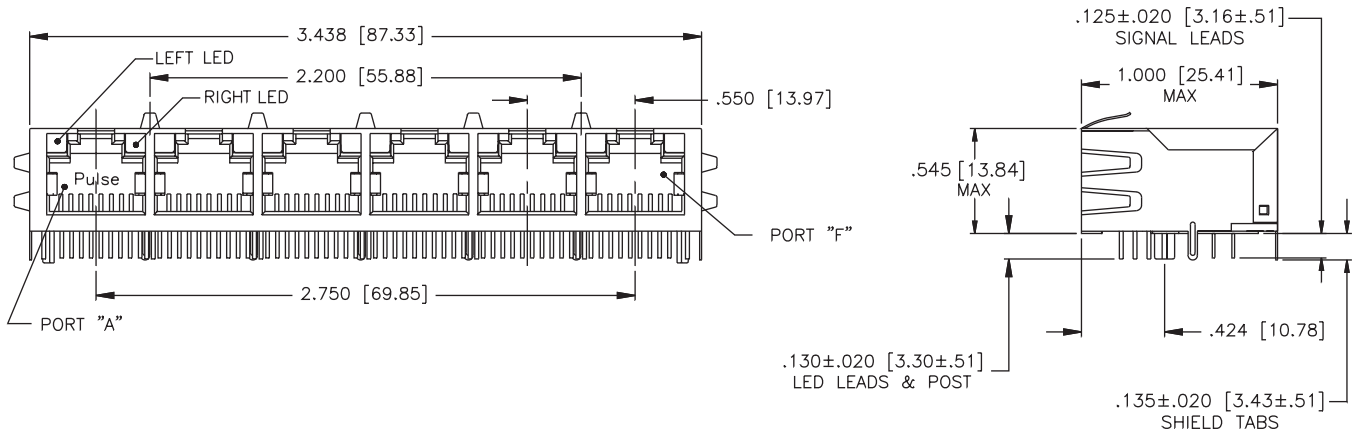
**JG0-0025/26**



PC Board Layout Component Side Shown  
PCB LAYOUT DIMENSIONS TO BE  $\pm .003$  UNLESS OTHERWISE SPECIFIED

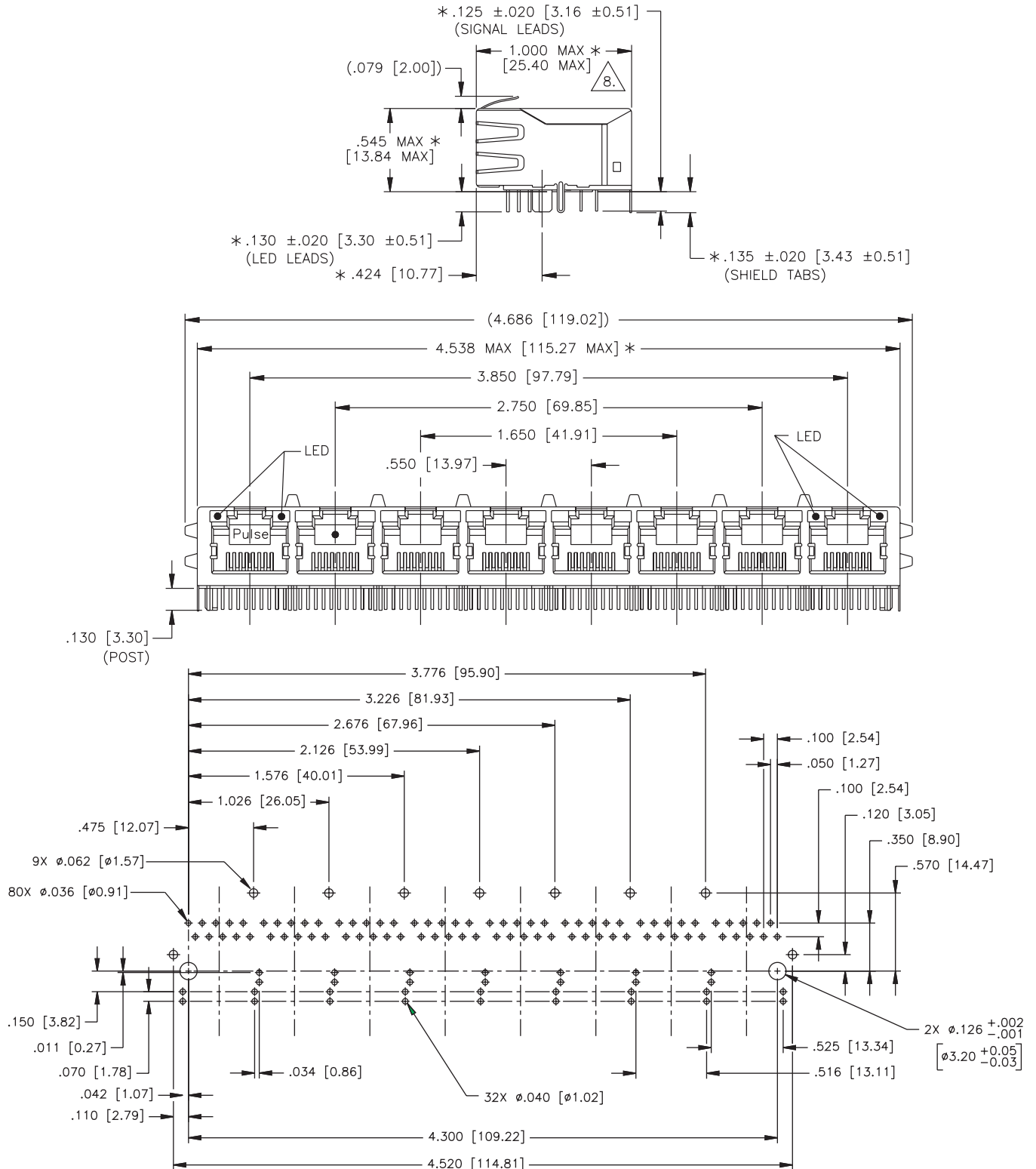
### Mechanical

JG0-0027



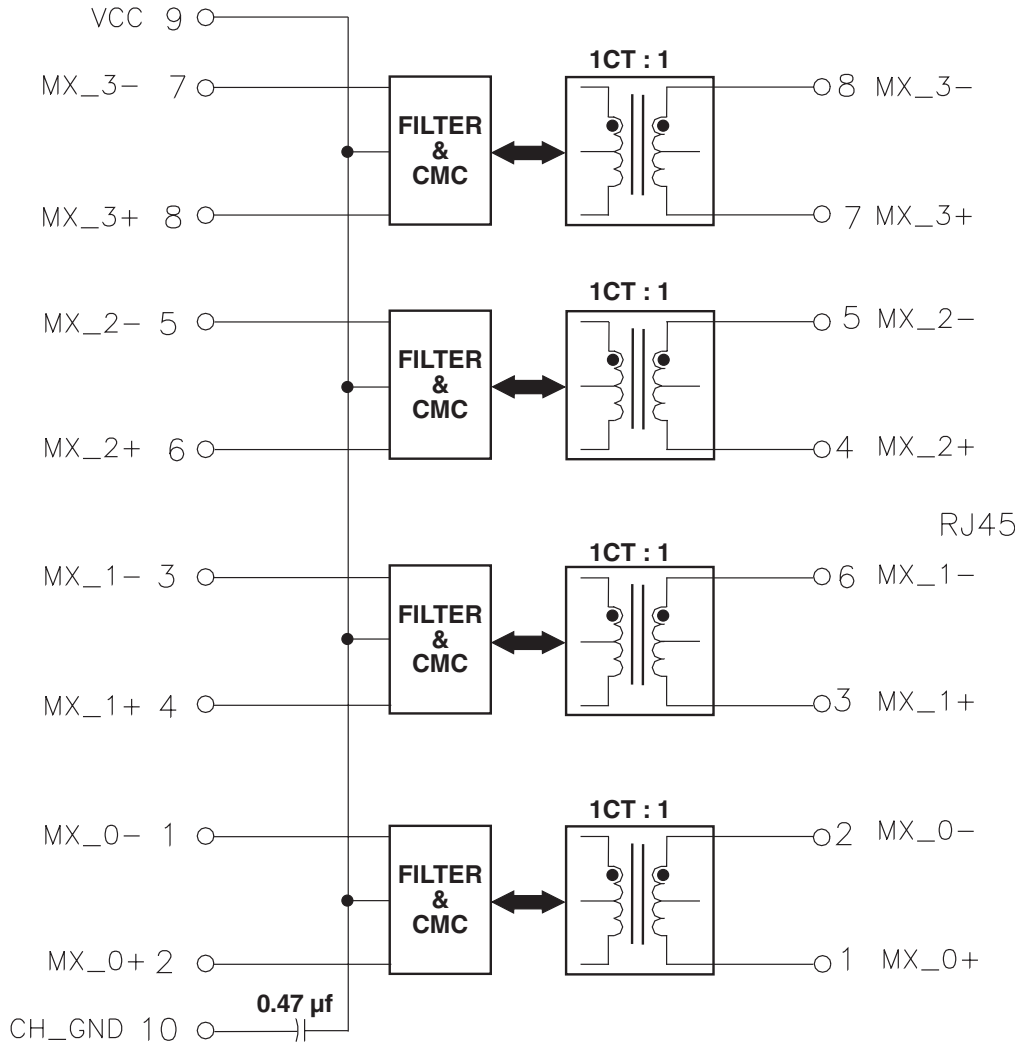
### Mechanical

**JG0-0028**

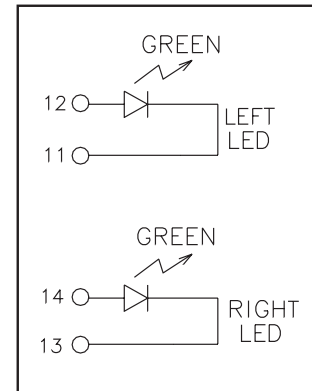


### Schematic

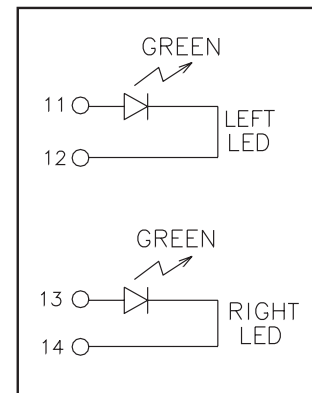
#### JG0-002X



**JG0-0024**  
**JG0-0026**  
**JG0-0027**  
**JG0-0028**



**JG0-0023**  
**JG0-0025**



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