# PulseJack™ 1X1 Tab-Down 10GBase-T RJ45



Designed to Support 10GBASE-T Transceivers





#### **Features and Benefits:**

Compliant with IEEE 802.3 standard

Qualified with top 10Gig PHY Manufacturers

👽 RoHS peak wave solder temperature rating 260°C

Low profile package for PCI Express

Fine-tune magnetics to specific PHY vendors

Electrical Specifications @ 25°C - Operating Temperature 0°C to 70°C											
RoHS Compliant		,	<b>Insertion Loss</b> (dB or better)		<b>Return Loss</b> (dB or better)		Common to Differential Mode Rejection (dB or better)		<b>Cross Talk</b> (dB or better)		Hipot
Part Number	Channel Option	LEDs <sup>2</sup> (L/R)	100 KHz	1-400 MHz	1-40 MHz	40-500 MHz	1-250 MHz	250-500 MHz	1-100 MHz	100-500 MHz	(V <sub>RMS</sub> MIN)
JT4-1108HL	5	G-Y/G	3.0	-2.0dB MAX (-1.4 dB TYP)	-22	-22 +18.27*L0G(f/100)	-30	-22	-30	-20	1500
JT4-1109HL	5	G-A/G-A	3.0	-2.0dB MAX (-1.4 dB TYP)	-22	-22 +18.27*LOG(f/100)	-30	-22	-30	-20	1500
JT4-1120HL	4	G-Y/G	3.0	-2.0dB MAX (-1.4 dB TYP)	-22	-17 +18.27*LOG(f/100)	-30	-22	-30	-20	1500

#### Notes:

**1. LEDs:** (Left/Right) G = green, Y = yellow, A = amber

RJ45 Durability Testing Rating							
Part Number	Mating Force (MAX)	Unmating Force (MAX)	Durability	Plug to Jack Retention (MIN)			
JT4 Series	5 lbs./2.268 kgs.	5 lbs./2.268 kgs.	750 Insertions	20lbs./9.072 kgs.			

RJ45 Material Specification									
		Shield		Contac	Housing		_		
Part					<b>7</b>			MSL <sup>2</sup>	
Number	Material	Finish	Material	Plating Area	Solder Area <sup>3</sup>	Material	Specification	Rating	
JT4 Series		50-200µ inches thick nickel	Phosphor	50µ inches gold over	$200\text{-}500\mu$ inches tin				
J14 3CIIC3	Brass	over brass	Bronze	30-50µ inches nickel	over 50-100µ inches nickel	Thermoplastic	UL 94 V-0	1	

#### Notes:

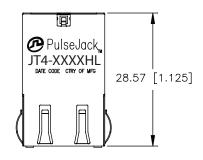
- 1. Connector dimensions comply with FCC dimension requirements.
- 2. MSL Moisture Sensitivity Level
- 3. All parts are tin matte finish over nickel.

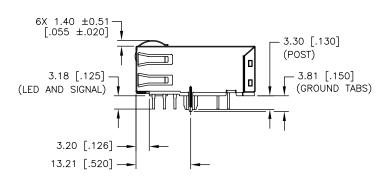
# PulseJack™ 1X1 Tab-Down 10GBase-T RJ45

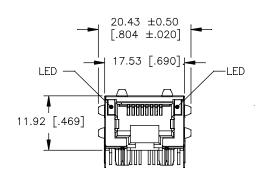
Designed to Support 10GBASE-T Transceivers

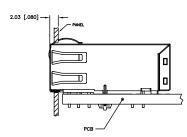
### **Mechanicals**

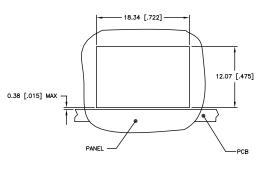
## JT4-1108HL, JT4-1109HL, JT4-1120HL



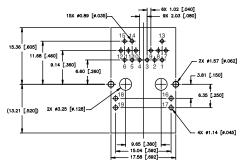


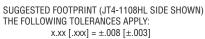


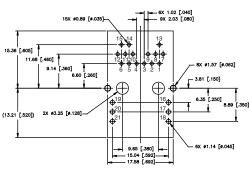




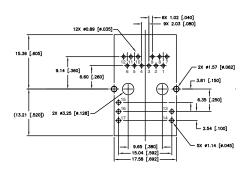
SUGGESTED PANEL CUTOUT







SUGGESTED FOOTPRINT (JT4-1109HL SIDE SHOWN) THE FOLLOWING TOLERANCES APPLY:  $x.xx \ [.xxx] = \pm .008 \ [\pm .003]$ 



SUGGESTED FOOTPRINT (JT4-1120HL SIDE SHOWN) THE FOLLOWING TOLERANCES APPLY:  $x.xx \ [.xxx] = \pm .008 \ [\pm .003]$ 

JT4-1108HL

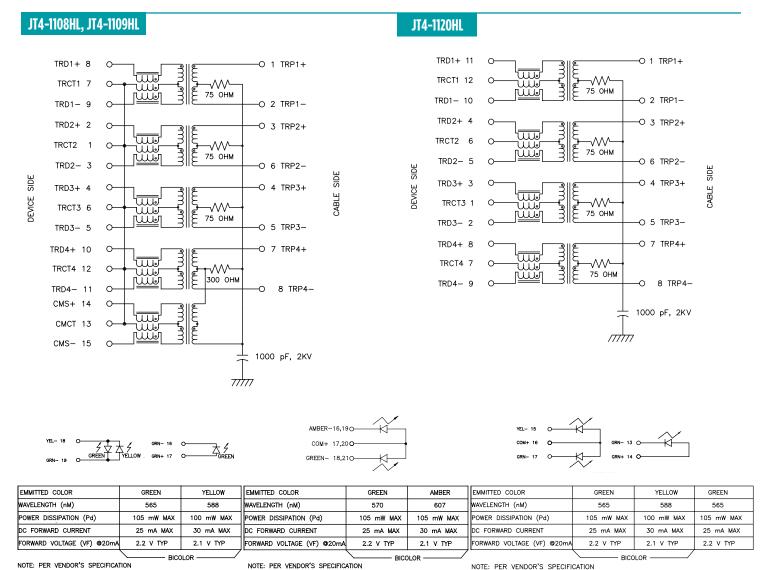
JT4-1109HL

JT4-1120HL

# PulseJack™ 1X1 Tab-Down 10GBase-T RJ45

Designed to Support 10GBASE-T Transceivers

## **Schematics**



### For More Information:

**LED SPECIFICATION FOR JT4-1108HL** 

Americas - prodinfonetworkamericas@pulseelectronics.com | Europe - comms-Apps-Europe@pulseelectronics.com | Asia - prodinfonetworkapac@pulseelectronics.com | Asia - prodinfonetworkapac@pulseelectronics.com |

**LED SPECIFICATION FOR JT4-1109HL** 

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2019. Pulse Electronics, Inc. All rights reserved.



**LED SPECIFICATION FOR JT4-1120HL**