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		,	Insertion Loss (dB or better)		Return Loss (dB or better)		Common to Differential Mode Rejection (dB or better)		Cross Talk (dB or better)		Hipot
Part Number	Channel Option	LEDs ² (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 _{RMS} 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					7			MSL ²	
Number	Material	Finish	Material	Plating Area	Solder Area ³	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:

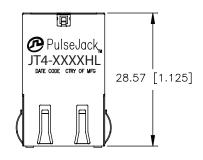
- 1. Connector dimensions comply with FCC dimension requirements.
- 2. MSL Moisture Sensitivity Level
- 3. All parts are tin matte finish over nickel.

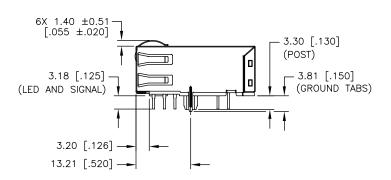
PulseJack™ 1X1 Tab-Down 10GBase-T RJ45

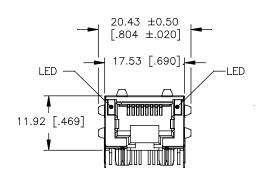
Designed to Support 10GBASE-T Transceivers

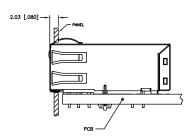
Mechanicals

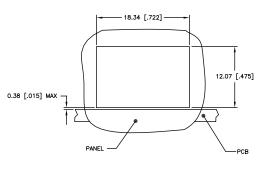
JT4-1108HL, JT4-1109HL, JT4-1120HL



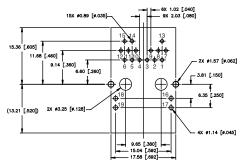


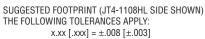


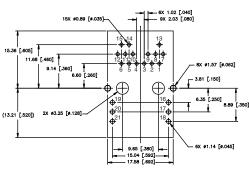




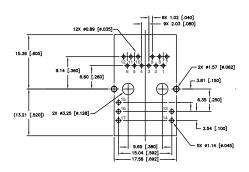
SUGGESTED PANEL CUTOUT







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

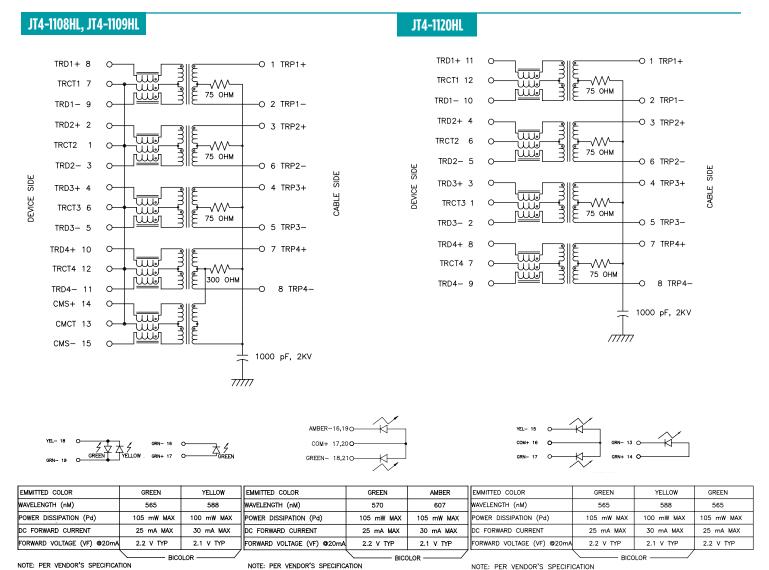
JT4-1109HL

JT4-1120HL

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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

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LED SPECIFICATION FOR JT4-1120HL

Mouser Electronics

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Pulse:

JT4-1104HL