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	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	200-500µ inches tin				
J14 Jelles	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.

USA 858 674 8100 Germany 49 7032 7806 0 Singapore 65 6287 8998 Shanghai 86 21 62787060 China 86 755 33966678 Taiwan 886 3 4356768

pulseelectronics.com J425.L (7/12)

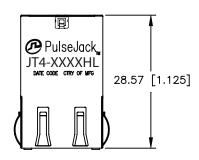
PulseJack™ 1X1 Tab-Down 10GBase-T RJ45

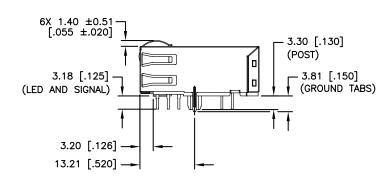
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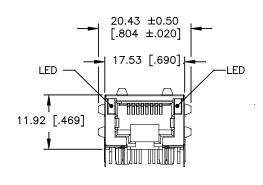


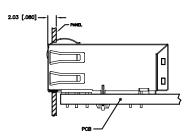
Mechanicals

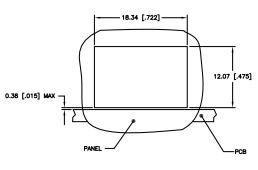
JT4-1108HL, JT4-1109HL, JT4-1120HL



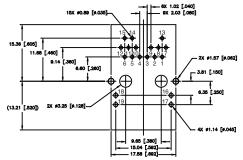


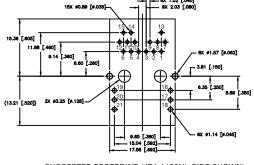


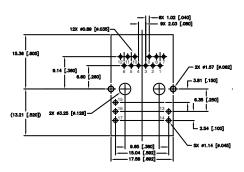




SUGGESTED PANEL CUTOUT







SUGGESTED FOOTPRINT (JT4-1108HL SIDE SHOWN) THE FOLLOWING TOLERANCES APPLY:

 $x.xx[.xxx] = \pm.008[\pm.003]$

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

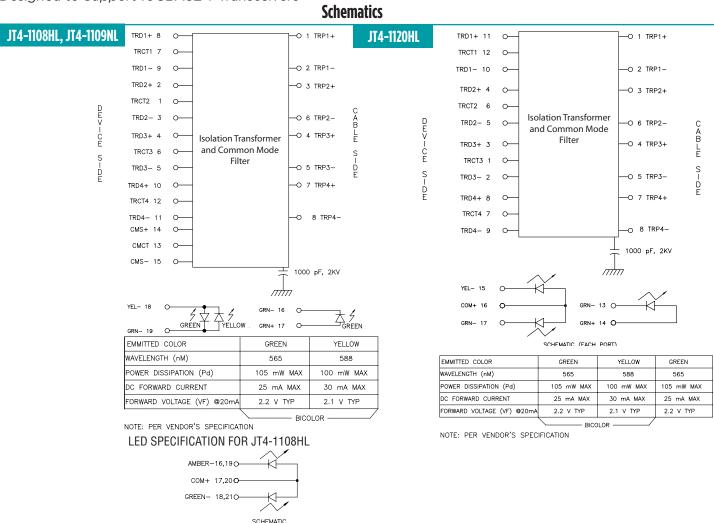
JT4-1109HL

JT4-1120HL

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NOTE: PER VENDOR'S SPECIFICATION

FORWARD VOLTAGE (VF) @20mA

EMMITTED COLOR

WAVELENGTH (nM)
POWER DISSIPATION (Pd)

DC FORWARD CURRENT

LED SPECIFICATION FOR JT4-1109HL

GREEN

105 mW MAX

25 mA MAX

For More Information

Road
1
unty 320
. C.
356768
356823
1

AMRER

105 mW MAX

30 mA MAX

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Pulse:

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