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Datasheet for 76650-0191

General Information

Part Number: 76650-0191

Manufacturer: Molex / Waldom

Title: TDP Connector Kit

Description: SMT Right Angle Plug and Receptacle and Backshell Assemblies

Product Family: TDP®

Certificates: (Molex Parts within this kit) - EU RoHS Compliant, UL and CSA

Country of Origin: Kit assembled in U.S.A.

Specifications

Design

Configuration: Wire-to-Board **Pitch:** 1.27mm (.050")

Connector Type:

Receptacles and Plugs

Mounting

Orientation: Right Angle
Circuit Sizes: 18 and 48

Current Rating: 1.5 Amps (per circuit)
Voltage: 40 VoltsAC(RMS)

Product Highlights

The innovative TDP (Triad Differential Pair) family uses a "triad" design of differential signal and ground lines to achieve bandwidths up to 5.0Gbps and beyond. The shielded, dual row, cable-to-board interface offers high speed and controlled impedance. It is comprised of a fully shielded receptacle and plug to provide maximum EMI/RFI protection. The inline SMT receptacle optimizes PCB routing and the low 7.67mm (.301") profile makes TDP an excellent choice where height considerations are a factor.

TDP utilizes a high-cycle-life (5000 cycles min.) Low Force Helix™ (LFH) contact design, providing long term performance and reliability. The recessed contacts protect signal lines from ESD, support mating alignment and provide added contact protection during operator handling. The TDP family is available in 18, 28 and 48 circuits. TDP cable plugs feature jackscrews for mating retention.



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Features and Benefits

- The shieded, dual row interface offers highspeed and 100-ohm controlled impedance with data rates up to 5 Gbs
- Inline SMT leads on 0.64mm (.025") pitch provide direct PCB routing
- High cycle LFH™ shrouded contact system provides 2 points of contact for optimal signal integrity
- Jackposts with 4-40 threads for use with jackscrews for positive mating retention
- First-mate/last-break pins 9 and 10 prevent damage when "hot plug" mating
- LFH[™] contact design provides shallow mating angle, reducing insertion forces
- Terminates to (24-32)AWG wire through soldering or resistance welding
- Contains 2-piece diecast shell and two jackscrews for TDP Cable Plug Connector
- Lead-free process compatible, meets future manufacturing requirements
- 5,000 mating cycles with 15µ" Gold (Au), high reliability
- 1.5A continuous current per pin, allows for higher power throughput

Applications

- High Resolution Cameras
- Audio, Video Editing and Storage
- Printers
- Medical Devices
- LVDS Servers
- Routers
- Switches
- Storage Devices
- Multiple High-Speed, Differential-Pair Signal Applications
- Military Data Communications and Video Equipment (cots)

Bill of Materials for Part No. 76650-0191

Molex Part No.	Country of Origin	Description	Quantity in Kit
		1.27mm (.050") Pitch TDP® Triad Differential Pair SMT Right	
74960-3018	USA	Angle Receptacle, China RoHS, Lead-Free, 18 Circuits	1
		1.27mm (.050") Pitch TDP® Triad Differential Pair SMT Right	
74960-3048	USA	Angle Receptacle, China RoHS, Lead-Free, 48 Circuits	1
		1.27mm (.050") Pitch TDP® Triad Differential Pair Plug	
75000-1018	Mexico	Assembly, China RoHS, Lead-Free, 18 Circuits	1
		1.27mm (.050") Pitch TDP® Triad Differential Pair Plug	
75000-1048	Mexico	Assembly, China RoHS, Lead-Free, 48 Circuits	1
		1.27mm (.050") Pitch TDP® Triad Differential Pair Die Cast	
75115-0018	USA	Backshell, China 50 (Pb), 18 Circuits	1
		1.27mm (.050") Pitch TDP® Triad Differential Pair Die Cast	
75115-0048	USA	Backshell, China 50 (Pb), 48 Circuits	1
74962-0001	Taiwan	TDP™ 3/16" Hex Jackpost (4-40 UNC-2B), China 50 (Pb)	4

No Recommended Molex Tool for Part No. 76650-0191

For additional Molex / Waldom Design and Solution Kits please go to www.molexkits.com