

FEATURES AND SPECIFICATIONS



13.00mm (.512") Pitch Projector Lamp Connector

Molex offers the Projector Lamp Connector for DLP* Projector Markets

DLP® technology is a revolutionary display solution that uses an optical semiconductor to manipulate light digitally. It is a highly reliable, all-digital display chip that delivers high picture quality across a broad range of products. With this DLP technology, due to its smaller physical size, the over size of projector is reduced. This makes the projector smaller and lighter thus making it more portable.

Molex has developed a compact Lamp connector to support the interconnect solution for power-to-lamp transmission for the DLP Projector. The Lamp connector is designed with a high voltage that is capable of handling DC voltage of up to 20kV(peak) and operating temperature of -20°C to 150°C.

Molex lamp connector is RoHS, UL, TUV, CSA and SGS compliant. It has the capability to inter-mate with competitor's version of lamp connector.

- 78166** – Plug Housing
- 78037** – Plug Terminal
- 78165** – Receptacle Housing
- 78036** – Receptacle Terminal



Features	Benefits
• High-temperature PPS housing	• Able to operate at high temperature
• High dielectric withstanding voltage	• capable to handle an DC voltage of up to 20KV (peak)
• Design with housing ears	• Provision for screw mount or latch mount to withstand vibration
• Options of insulation crimp on the wire	• Options of either Di-electric strength or better retention force
• Lead-free products	• RoHS Compliant
• Certification	• Compliant to UL, TUV, CSA, SGS standards

SPECIFICATIONS

Reference Information

Packaging:

Bag- Housing

Reel- Terminal

UL File No.: TBA

CSA File No.: TBA

Mates With: See Table

Use With : See Table

Designed In: Millimeters

Electrical

Voltage: 250 Volt AC(RMS)

Current: 10 Amp (max.)

Contact Resistance: 20 milliohms max

Dielectric Withstanding Voltage: 20KV DC for 1 minute

Insulation Resistance: 1000 milliohms min.

Mechanical

Contact Retention to Housing: 4 kgf

Mating Force: 4 kgf max.

Unmating Force: 0.6 to 2 kgf

Durability: 250 cycles

Physical

Housing: PPS, 94V-0, Black

Contact: Copper Alloy

Plating:

Contact Area — Tin plating

Underplating — Nickel

Wire Range: 18 to 22 AWG

Operating Temperature: -20°C to 150°C.

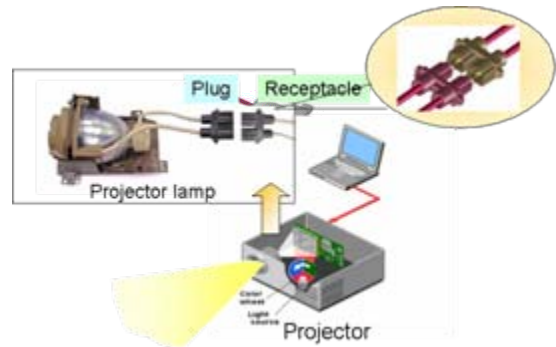
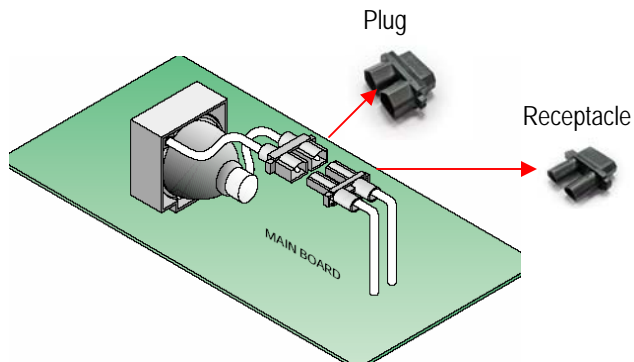
Markets and Applications



13.00mm (.512") Pitch Projector Lamp Connector

- **Projector**
 - Office
 - Home Entertainment
- **Application**
 - Bulb connected to Lamp Driver

- 78166** – Plug Housing
- 78037** – Plug Terminal
- 78165** – Receptacle Housing
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Ordering Information

Order No.	Description	Mates With	Use With
78166-1001	Projector Lamp Plug Housing	78165-1001	78037-2001
78037-2001	Projector Lamp Plug Terminal	78036-2001	78166-1001
78165-1001	Projector Lamp Receptacle Housing	78166-1001	78036-2001
78036-2001	Projector Lamp Receptacle Terminal	78037-2001	78165-1001



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