

## FEATURES AND SPECIFICATIONS



**Molex offers a small pitch version of the Projector Lamp Connector for portable 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.

In this revision update, Molex has included a 5.40mm pitch version of the projector lamp connector. This provides projector manufacturers an option to reduce the overall size of projector design, making it more portable for users.

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.

For more information about the Projector Lamp Connector, please visit:

<http://www.molex.com/product/projectorlampconnector.html>

## Projector Lamp Connector

13.00mm (.512") Pitch

**78036** Receptacle Terminal

**78037** Plug Terminal

**78165** Receptacle Housing

**78166** Plug Housing

5.40mm (.213") Pitch

**78196** Receptacle Housing

**78197** Plug Housing



### Features

- High-temperature PPS housing
- High dielectric withstanding voltage
- Design with housing ears
- Options of insulation crimp on the wire
- Compliant to UL, TUV, CSA and SGS standards

### Benefits

- Able to operate at high temperature
- Capable to handle an DC voltage of up to 20KV (peak)
- Provision for screw mount or latch mount to withstand vibration
- Options of either di-electric strength
- Designed to meet industry requirements and ensures capability to intermate with competitors' lamp connector

## SPECIFICATIONS

### Reference Information

Packaging:

Bag- Housing

Reel- Terminal

UL File No.: E29179

CSA File No.: 1762626

TUV: R72060276

Mates With: See ordering chart on next page

Use With : See ordering chart on next page

Designed In: Millimeters

### Electrical

Voltage: 250 Volt AC(RMS)

Current: 10 Amp (max.)

Contact Resistance: 20 milliohms max

Dielectric Withstanding Voltage: See table

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

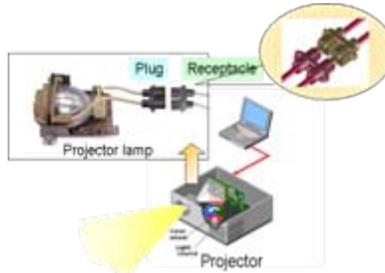
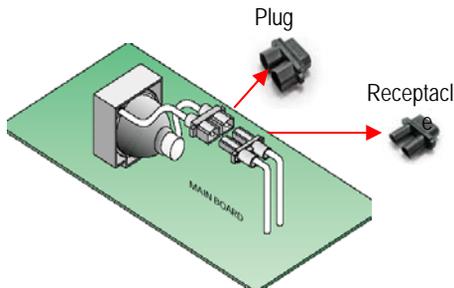
Underplating — Nickel

Wire Range: 18 to 22 AWG

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

## Markets and Applications

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



## Projector Lamp Connector 13.00mm (.512") Pitch

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

## 5.40mm (.213") Pitch

- 78196** Receptacle Housing
- 78197** Plug Housing

## Ordering Information

Order No.	Description	Pitch	Dielectric Withstanding Voltage	Mates With	Use With
78036-2001	Receptacle Terminal, Bent wing type	N.A.	20KV DC for 1 minute	78037-2001	78036-1001 78165-1001
78036-2005	Receptacle Terminal, Straight wing type		7KV DC for 1 minute	78037-2005	78196-1001
78037-2001	Plug Terminal, Bent wing type		20KV DC for 1 minute	78036-2001	78037-1001 78166-1001
78037-2005	Plug Terminal, Straight wing type		7KV DC for 1 minute	78036-2005	78197-1001
78165-1001	Receptacle Housing	13.00mm (.512")	20KV DC for 1 minute	78166-1001	78036-2001
78166-1001	Plug Housing			78165-1001	78037-2001
78196-1001	Receptacle Housing	5.40mm (.213")	7KV DC for 1 minute	78197-1001	78036-2005
78197-1001	Plug Housing			78196-1001	78037-2005



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