

## FEATURES AND SPECIFICATIONS



## Battery Connector

**Molex offers Battery Connectors for mobile applications.**

In mobile applications, battery efficiency plays an important part in the utilization time of the device. Proper battery contact, efficient electrical properties, physical size of connector are some of the major design considerations.

Working together with major customers in the mobile device markets, Molex has developed a comprehensive range of battery connectors that addresses most of these applications design concerns. With working heights of 1.50mm to 5.50mm and circuit sizes of 2 to 5, Molex's battery connectors brings forth flexibility in design solutions for the customers.

**47182**

**Vertical, SMT**

**47204**

**Right Angle, SMT**

**47274**

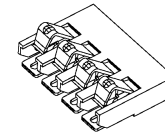
**Right Angle, SMT**

**47280**

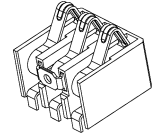
**Right Angle, SMT**

**48232**

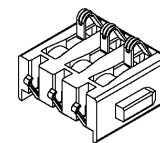
**Parallel, SMT**



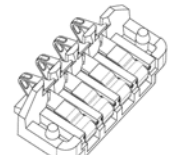
47182



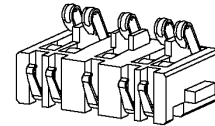
47204



47274



47280



48232

Features	Benefits
<ul style="list-style-type: none"> <li>Stable normal force</li> </ul>	<ul style="list-style-type: none"> <li>Secure contact</li> </ul>
<ul style="list-style-type: none"> <li>Various configurations and contact heights</li> </ul>	<ul style="list-style-type: none"> <li>Meets specific application needs</li> </ul>
<ul style="list-style-type: none"> <li>High number of mating cycles</li> </ul>	<ul style="list-style-type: none"> <li>Meets requirements of most demanding users</li> </ul>
<ul style="list-style-type: none"> <li>Overall small size</li> </ul>	<ul style="list-style-type: none"> <li>Meets tight-packaging needs</li> </ul>

## SPECIFICATIONS

### Reference Information

**Packaging:** Refer to order table

**UL File No.:**

**CSA File No.:**

**Mates With:**

**Designed In: mm**

### Electrical

**Voltage:** Refer to order table

**Current:** Refer to order table

**Contact Resistance:** Refer to order table

**Dielectric Withstanding Voltage:** Refer to order table

**Insulation Resistance:** Refer to order table

### Mechanical

**Contact Insertion Force:**

47182, 47274, 47204 : 1.02N (0.67lb)

**Durability:** Refer to order table

### Physical

**Housing:** Thermoplastic, JL 94V-0

**Contact:**

47182, 47204, 47274, 48232 Copper (Cu)

Alloy

47280 Beryllium Copper (BeCu)

### Plating:

**Contact Area** — Refer to order table

**Underplating** — Nickel (Ni)

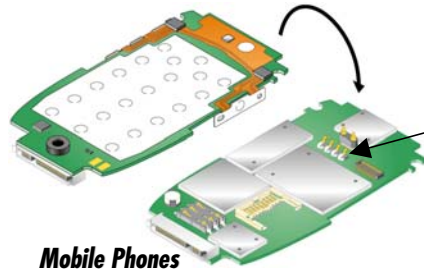
**Operating Temperature:** Refer to order table

## MARKETS AND APPLICATIONS

- Mobile phones
- PDAs
- Handheld GPS units



PDA's



Mobile Phones

Battery Connector



Handheld GPS



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**47204**  
**47274**  
**47280**  
**48232**

**Vertical, SMT**  
**Right Angle, SMT**  
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**Right Angle, SMT**  
**Parallel, SMT**

## ORDERING INFORMATION

Description	Lead-Free Order No.	Circuit Size	Amps (Max)	Voltage-max	Withstanding Voltage	Plating Contact	Overall Length	First-to-Last Circuit	Durability
1.50mm (.059") Pitch Battery Connector, Parallel 5 Circuits, Compression Contact to PCB	48232-0001	5	1.5A	125V	500V AC	0.25µm (10µ") Gold (Au)	N.A.	N.A.	10,000 cycles
2.00mm (.079") Pitch Battery Connector, Vertical Surface Mount, Width 5.98mm (.235"), Working Height 2.10mm (.083")	47182-1001	2	1.0A	200V	100V AC	0.76µm (30µ") Gold (Au)	4.10mm (.161")	2.00mm (.079")	10,000 cycles
	47182-0001	4					8.10mm (.319")	6.00mm (.236")	
2.00mm (.079") Pitch Battery Connector, Right Angle Surface Mount	47280-0001	4	1.5A	200V	500V DC	0.76µm (30µ") Gold (Au)	11.98mm (.472")	6.00mm (.236")	10,000 cycles
2.50mm (.098") Pitch Battery Connector, Right Angle Compression Contact to PCB	47274-0001	3	1.0A	200V	1000V AC	0.76µm (30µ") Gold (Au)	10.00mm (.394")	5.00mm (.197")	10,000 cycles
2.50mm (.098") Pitch Battery Connector, Right Angle Surface Mount, Width 7.00mm (.276"), Working Height 5.50mm (.217")	47204-0001	3	1.0A	200V	100V AC	0.40µm (16µ") Gold (Au)	7.50mm (.295")	5.00mm (.197")	10,000 cycles



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