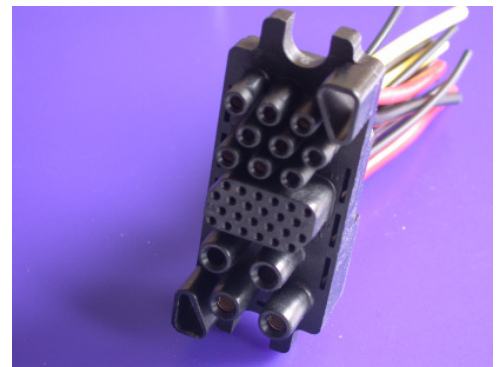
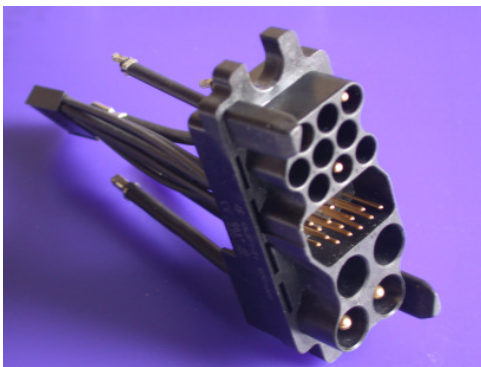




**HIPO**  
Systems GmbH

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## **DL37T Plug and DL37Z Receptacle**



**This power connector designed for high current power distribution in pluggable power supply.**

### **Features:**

**#Current: up to 4 x 75A**

**#Termination types: Crimp, PCB solder,  
solder**

### **Applications:**

**#Low noise supplies**

**#Switch-mode power supplies**

**#System requires mounting**

# Description

## Technical Data

### Contact Information:

- ▲ Number of contacts:37
- ▲ Contact sizes: 24 x #20; 9 x #12; 4 x #8
- ▲ Contact length: standard, pre and post mate
- ▲ Termination: crimp, solder, PCB
- ▲ Plating: silver or gold

<b>Insert arrangement</b>	<b>Number</b>	<b>Size</b>	<b>Current rating</b>	<b>Plating</b>	<b>Termination</b>	<b>Fixed/removeable</b>
1-9	9	12#	35A	gold or silver	crimp solder PCB	removeable removeable fixed
10-33	24	20#	5A	gold or silver	crimp Solder PCB	removeable removeable fixed
34-37	4	8#	75A	gold or silver	crimp solder PCB	removeable removeable fixed

### **Performance parameter mated:**

#### ■ **Electrical performance**

- ▲ Contact Resistance: 8 #  $\leq 0.75\text{m}\Omega$ ; 12 #  $\leq 1\text{m}\Omega$ ; 20 #  $\leq 5\text{m}\Omega$
- ▲ Current Rating: 8 # : 75A; 12 # : 35A; 20 # 5A
- ▲ Voltage Rating: 250VAC / 600 VAC
- ▲ Dielectric withstanding voltage: normal temperature: 1500 VAC ( for 20# contact,

1000VAC); heat and damp: 1000 VAC (for 20# contact: 500 VAC)

▲ Insulation resistance  $\geq 5 \times 10^6 \text{ M}\Omega$

#### ■ Mechanical performance

▲ Withdrawal force of 8# socket 4~10N

▲ Withdrawal force of 12# socket 1.5~4N

▲ Withdrawal force of 20# socket 0.3~0.8N

▲ Mating cycles : 500 cycles

#### ■ Material and surface treatment

▲ Pin

Material: brass

Plating: 5 - 8 $\mu$  mm silver plating or

0.3 – 0.6 $\mu$  mm gold plating over 2 $\mu$  mm nickel

▲ Socket

Material: brass beryllium bronze

Plating: 5 - 8 $\mu$  mm silver plating or

0.3 – 0.6 $\mu$  mm gold plating over 2 $\mu$  mm nickel

▲ Housing:

PET, glass filled, UL94V-0

Color: black

#### ■ Operation environment

▲ Temperature range : -55°C ~ 125°C

▲ Humidity: 98% at 40°C

▲ Shock: acceleration 147 m/s<sup>2</sup>

▲ Vibration: / 10Hz ~ 2000Hz, acceleration

#### ▲ Terminations

Crimp, PCB solder, solder

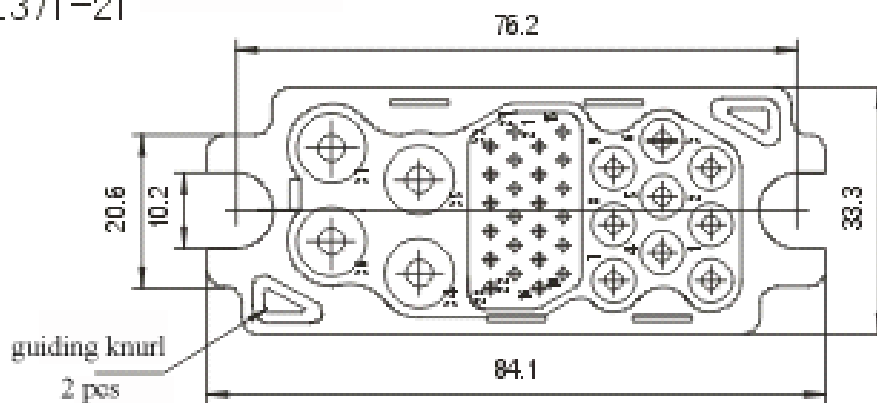
▲ General features

Guiding structure to avoid mismounting and float mounting for blind mating.

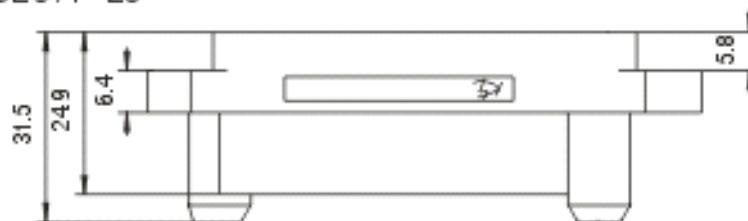
## Variations and Dimensions

### Dimensions DL37T-20 and DL37T-21 Plug

DL37T-20 Plug Housing  
DL37T-21

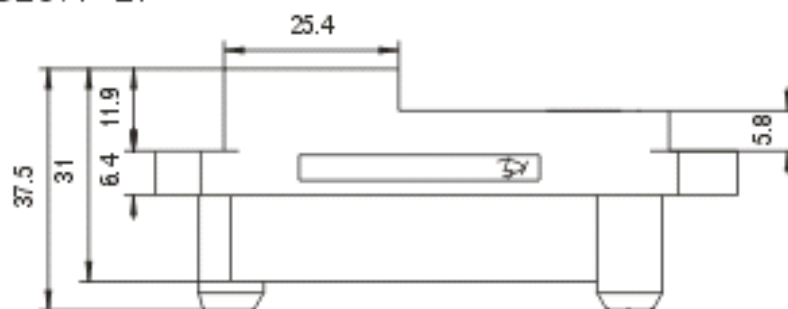


DL37T-20



8# solder or PCB pin

DL37T-21

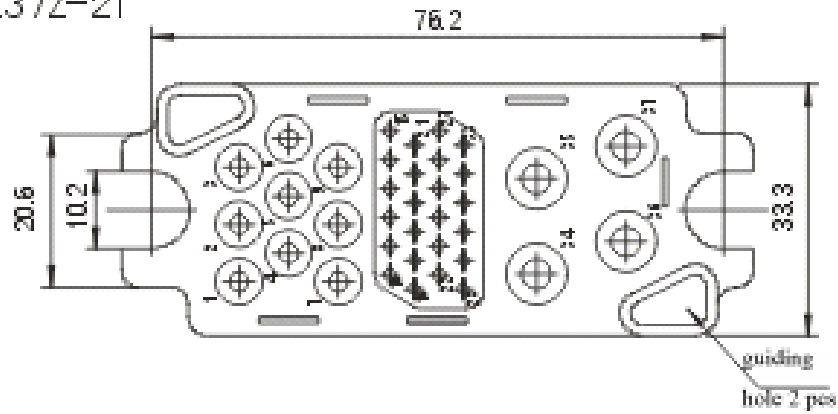


8# crimping pin

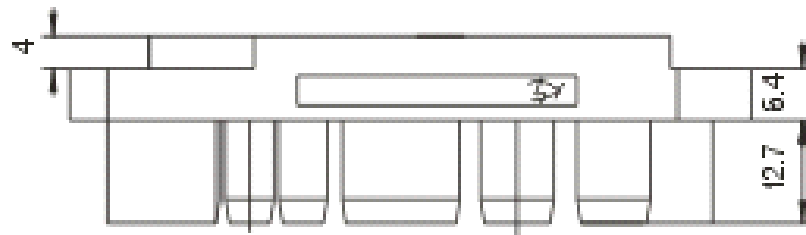


## Dimensions DL37Z-20 and DL37Z-21 Receptacle

DL37Z-20 Receptacle Housing  
DL37Z-21

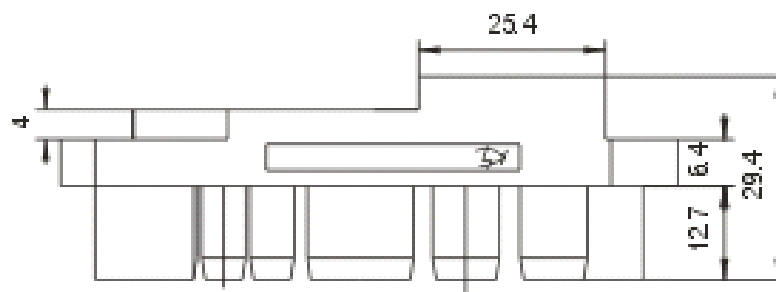


DL37Z-20



8# solder or PCB socket

DL37Z-21



8# crimping socket

# hole gap of receptacle

