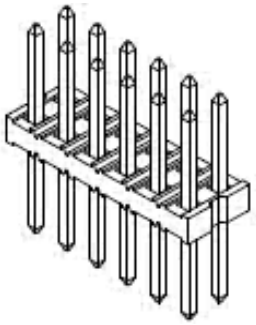
molex



**Part Number :** 877584816
**Product Description :** 2.00mm Pitch Milli-Grid Header, Vertical, Through Hole, 48 Circuits, 0.38µm Gold (Au) Plating, Mating Pin Length 4.00mm, Tail Length 2.60mm, Tray, Lead-Free
**Series Number :** 87758
**Status :** Active
**Product Category :** PCB Headers and Receptacles

## Documents and Resources

### Drawings

877584816_sd.pdf

PK-89990-487-001.pdf

### 3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

Symbol and Footprint (Multi-Format)

### Specifications

503940001-AS-000.pdf

PS-87761-100-001.pdf

877610000-TS-000.pdf

## Product Environment Compliance

### Compliance

| | |
|---|---|
| GADSL/IMDS | Compliant with Exemption 44; 34; 33 |
| China RoHS | per SJ/T 11365-2006 |
| EU ELV | Not Relevant |
| Low-Halogen Status | Not Low-Halogen per IEC 61249-2-21 |
| REACH SVHC | Not Contained per ED/71/2019 |

Downloaded from Arrow.com.

| | |
|---|---|
| | (16 July 2019) |
| EU RoHS | Compliant per EU 2015/863 |

Compliance Statements
- EU RoHS
- REACH SVHC
- Low-Halogen

Industry Documents
- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

Substances of Interest
- PFAS

EU RoHS Certificate of Compliance

Additional Product Compliance Information

---

## Part Details

### General

| | |
|---|---|
| Status | Active |
| Category | PCB Headers and Receptacles |
| Series | 87758 |
| Description | 2.00mm Pitch Milli-Grid Header, Vertical, Through Hole, 48 Circuits, 0.38µm Gold (Au) Plating, Mating Pin Length 4.00mm, Tail Length 2.60mm, Tray, Lead-Free |
| Application | Board-to-Board, Signal |
| Component Type | PCB Header |
| Product Name | Milli-Grid |
| UPC | 822348310982 |

### Agency

| | |
|---|---|
| UL | E29179 |

### Electrical

| | |
|---|---|
| Current - Maximum per Contact | 2.0A |

Downloaded from Arrow.com.

| | |
|---|---|
| Voltage - Maximum | 125V |

**Physical**

| | |
|---|---|
| Breakaway | Yes |
| Circuits (Loaded) | 48 |
| Circuits (maximum) | 48 |
| Color - Resin | Black |
| Durability (mating cycles max) | 100 |
| First Mate / Last Break | No |
| Glow-Wire Capable | No |
| Guide to Mating Part | No |
| Keying to Mating Part | No |
| Lock to Mating Part | No |
| Mated Height | 4.00mm |
| Material - Metal | Phosphor Bronze |
| Material - Plating Mating | Gold |
| Material - Plating Termination | Tin |
| Material - Resin | Nylon |
| Net Weight | 1.238/g |
| Number of Rows | 2 |
| Orientation | Vertical |
| Packaging Type | Tray |
| PCB Locator | No |
| PCB Retention | No |
| PCB Thickness - Recommended | 1.60mm |
| PC Tail Length | 2.60mm |
| Pitch - Mating Interface | 2.00mm |
| Pitch - Termination Interface | 2.00mm |
| Plating min - Mating | 0.381µm |
| Plating min - Termination | 1.905µm |
| Polarized to Mating Part | No |
| Polarized to PCB | No |
| Shrouded | Unshrouded |
| Stackable | No |
| Temperature Range - Operating | -55° to +105°C |

Downloaded from Arrow.com.

| | |
|---|---|
| Termination Interface Style | Through Hole |

### Solder Process Data

| | |
|---|---|
| Max-Duration | 3 |
| Lead-Free Process Capability | WAVE |
| Max-Cycle | 1 |
| Max-Temp | 250 |

## Mates With / Use With

### Mates with Part(s)

| Description | Part Number |
|---|---|
| Milli-Grid Dual Row Receptacle Housings | 51110 |
| Milli-Grid Vertical Through Hole PCB Receptacles | 78787 |
| Milli-Grid Top Entry Surface Mount PCB Receptacles | 78788 |
| Milli-Grid Vertical Through Hole PCB Receptacles | 79107 |
| Milli-Grid Vertical Through Hole PCB Receptacles | 79108 |
| Milli-Grid Top/Bottom Entry Surface Mount PCB Receptacles | 79109 |
| Milli-Grid Top Entry Surface Mount PCB Receptacles | 87381 |



Downloaded from Arrow.com.