

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0877801001](#)  
**Status:** **Active**  
**Overview:** Serial ATA Connectors and Cable Assemblies  
**Description:** 1.27mm Pitch Serial ATA Host Receptacle, Press-fit, Vertical, Extended Height, 0.76µm Gold (Au) Selective, 22 Circuits, Lead-Free

**Documents:**

[3D Model](#) [Product Specification PS-87780-024-001 \(PDF\)](#)  
[3D Model \(PDF\)](#) [Packaging Specification PK-87780-100 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
 UL E29179

**General**

Product Family PCB Receptacles  
 Series [87780](#)  
 Application Board-to-Board, Signal  
 Overview [Serial ATA Connectors and Cable Assemblies](#)  
 Product Name Serial ATA  
 UPC 822348861293

**Physical**

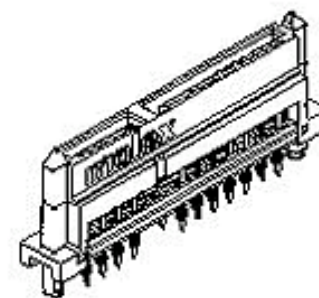
(p)ower-(s)ignal Configuration 15p - 7s  
 Circuits (Loaded) 22  
 Circuits (maximum) 22  
 Durability (mating cycles max) 500  
 Flammability 94V-0  
 Glow-Wire Capable No  
 Guide to Mating Part Yes  
 Lock to Mating Part Yes  
 Material - Metal Copper  
 Material - Plating Mating Gold  
 Material - Plating Termination Tin  
 Net Weight 2.518/g  
 Number of Rows 2  
 Orientation Vertical  
 PC Tail Length 3.45mm  
 PCB Locator Yes  
 PCB Retention Yes  
 PCB Thickness - Recommended 1.52mm, 2.03mm  
 Packaging Type Tray  
 Pitch - Mating Interface 1.27mm  
 Plating min - Mating 0.762µm  
 Plating min - Termination 2.540µm  
 Polarized to Mating Part Yes  
 Polarized to PCB Yes  
 Surface Mount Compatible (SMC) Yes  
 Temperature Range - Operating -40° to +105°C  
 Termination Interface: Style Through Hole

**Electrical**

Current - Maximum per Contact 1.5A  
 Voltage - Maximum 30V

**Solder Process Data**

Duration at Max. Process Temperature (seconds) 010



Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per -  
 D(2020)4578-DC (25  
 June 2020)

**Halogen-Free**

**Status**

**Low-Halogen**

For more information, please visit [Contact US](#)

China ROHS

ELV

RoHS Phthalates

**China RoHS**

Green Image

Not Relevant

Not Contained

**Search Parts in this Series**

[87780 Series](#)

**Mates With**

[87679](#) , [87799](#) , [87703](#)

Lead-freeProcess Capability

N/A

**Material Info**

**Reference - Drawing Numbers**

Electrical Model Document

EE-87703-001, EE-87703-002

Packaging Specification

PK-87780-100

Product Specification

PS-87780-024-001

S-Parameter Model

SP-87703-001

Sales Drawing

SD-87780-031

This document was generated on 01/21/2021

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