

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0876870001

Status:

Active

Overview:

extreme_powerplus_ssi

Description:

6.35mm (.250") Pitch, Power, 2.54mm (.100") Pitch, Signal, EXTreme PowerPlus™ DPS P-S-P Receptacle, Through Hole, Vertical, with Beveled Metal Pins, 26 Circuits, Power Alpha 1, Signal 24, Power Beta 1, Lead-free

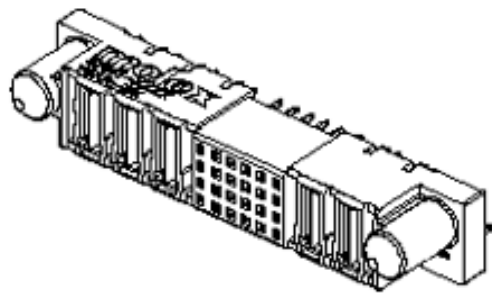


image - Reference only

Series

Documents:

- [3D Model](#)
- [Drawing \(PDF\)](#)
- [Product Specification PS-87606-002 \(PDF\)](#)
- [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	PCB Receptacles
Series	87687
Application	Board-to-Board
Overview	extreme_powerplus_ssi
Product Name	EXTreme PowerPlus™

Physical

Circuits (Loaded)	26
Circuits (maximum)	29
Circuits Detail	Power Alpha 1, Signal 24, Power Beta 1
Color - Resin	Black
Durability (mating cycles max)	100
Glow-Wire Compliant	No
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	4
Orientation	Vertical
PC Tail Length (in)	0.135 In
PC Tail Length (mm)	3.43 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.093 In
PCB Thickness Recommended (mm)	2.36 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.100 In, 0.179 In, 0.250 In
Pitch - Mating Interface (mm)	2.54 mm, 4.45 mm, 6.35 mm
Pitch - Term. Interface (in)	0.100 In, 0.175 In
Pitch - Term. Interface (mm)	2.54 mm, 4.45 mm
Plating min: Mating (µin)	30.4
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	101.6
Plating min: Termination (µm)	2.54
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-20°C to +105°C
Termination Interface: Style	Through Hole, Through Hole - Compliant Pin

Electrical

Current - Maximum per Contact	2.5A, 30A
Voltage - Maximum	50V DC

EU RoHS

ELV and RoHS
Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Halogen-Free

China RoHS



Need more information on product
environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of
Compliance, [click here](#)

Please visit the [Contact Us](#) section for any
non-product compliance questions.

Search Parts in this Series

87687Series

Mates With

87658 EXTreme PowerPlus™ Header

Solder Process Data

Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

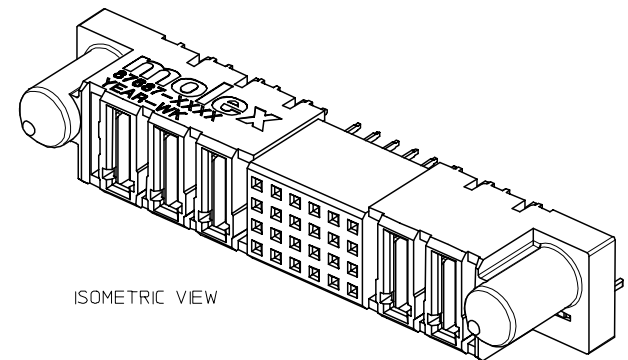
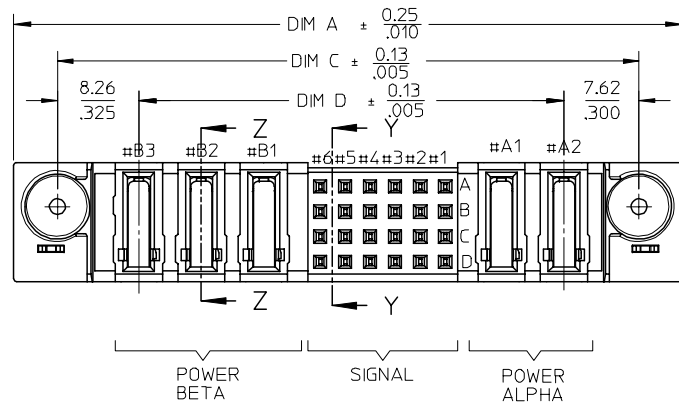
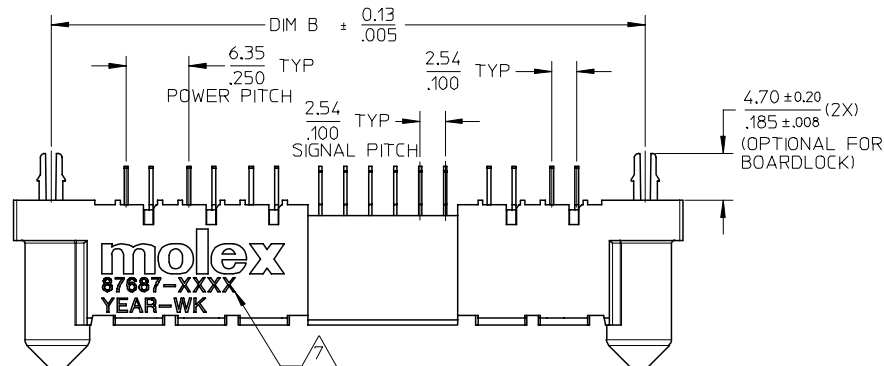
Material Info

Reference - Drawing Numbers

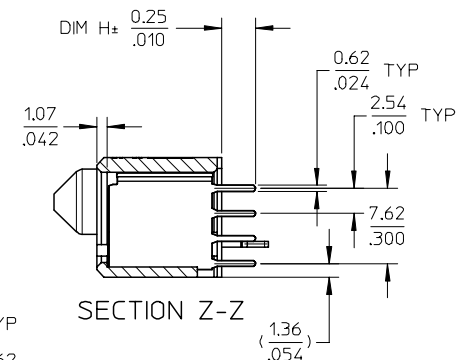
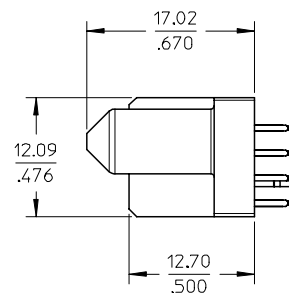
Application Specification	AS-87631-018
Product Specification	PS-87606-002
Sales Drawing	SD-87687-001

This document was generated on 05/21/2010

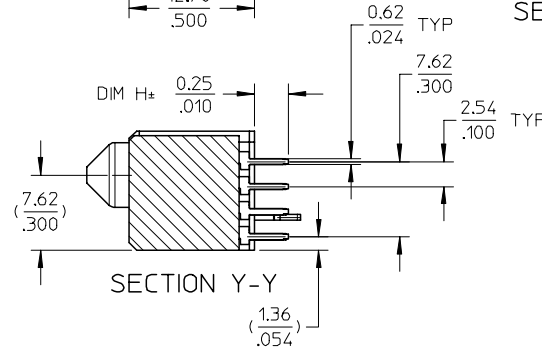
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ISOMETRIC VIEW



SECTION Z-Z



SECTION Y-Y

NOTES:

- MATERIAL:-
HOUSING - LCP, GLASS-FILLED, UL 94V-0, COLOR: BLACK.
SIGNAL AND POWER TERMINAL - COPPER ALLOY
- FINISH:
SIGNAL AND POWER CONTACTS
0.76um MIN. GOLD AT CONTACT AREA AND
2.54um MIN. TIN AT SOLDER TAIL AREA
OVER 1.27um MINIMUM NICKEL(Ni) UNDERPLATE.
- PRODUCT SPECIFICATIONS: PS-87606-002.
- COMPONENT STAY AWAY ZONE FROM THE CONNECTOR.
- PCB NOTE FOR DIAMETER 1.02/.040 PLATED HOLE.
-DRILLED HOLE SIZE IS 1.151/.04536.
-PLATED WITH 0.007/.003MIN. TIN OVER 0.03/.001 TO
ACHIEVE 1.02±0.08/0.040±.003 HOLE
- ALL TERMINAL TIPS ARE DESIGNED WITH EXPOSED BASE COPPER.
THIS IS CREATED BY FINAL CUTTING PROCESS AFTER PLATING.
- MANUFACTURING LOGO, PART NUMBER AND YEAR-WEEK CODE.

PDR#S00-1373-00-00 EC NO: S2007-0209 DRAWING NAME: 2006/09/15 CHKD BY: 2006/09/15 APPR: SKTH 2006/10/09			QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
DESCRIPTION			▽=0	mm INCH		DRAWN BY DATE		TITLE DPS CONNECTOR RECEPTACLE, P-S-P CONFIG VERTICAL T/H, BOARDLOCK			
			4 PLACES ± --- ± ---		BHLW 2001/09/11						
			3 PLACES ± --- ± .005		CHECKED BY DATE						
			2 PLACES ± 0.13 ± ---		PTL IM 2001/09/12						
			1 PLACE ± --- ± ---		APPROVED BY DATE						
			ANGULAR ± 3 °		SKTH 2001/09/14						
REV			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87687-001		SHEET NO. 1 OF 2		
			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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