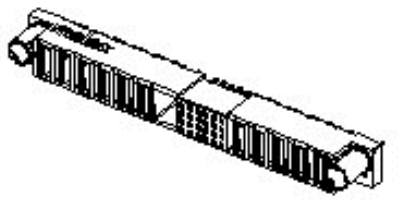
molex
one company > a world of innovation

This document was generated on 05/21/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0876651001
Status: Active
Overview: extreme_powerplus_ssi
Description: 6.35mm (.250") Pitch, Power, 2.54mm (.100") Pitch, Signal, EXTreme PowerPlus™ (SSI) MPS Receptacle, Press-fit, Vertical, Power Beta 6, Signal 24, Power Alpha 5, 35 Circuits, Leadfree



Series image - Reference only

Documents:

- 3D Model
- Drawing (PDF)
- Product Specification PS-87665-006 (PDF)
- RoHS Certificate of Compliance (PDF)

General

Product Family	PCB Receptacles
Series	87665
Application	Board-to-Board
Overview	extreme_powerplus_ssi
Product Literature Order No	987650-3002
Product Name	EXTreme PowerPlus™

Physical

Circuits (Loaded)	35
Circuits Detail	Power Beta 6, Signal 24, Power Alpha 5
Color - Resin	Black
Durability (mating cycles max)	100
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Lock to Mating Part	Yes
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	No
PCB Retention	Yes
PCB Thickness Recommended (in)	0.093 In
PCB Thickness Recommended (mm)	2.40 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.100 In, 0.250 In
Pitch - Mating Interface (mm)	2.54 mm, 6.35 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
Surface Mount Compatible (SMC)	N/A
Temperature Range - Operating	-20°C to +70°C
Termination Interface: Style	Through Hole - Compliant Pin

Electrical

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

Material Info

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
87665Series

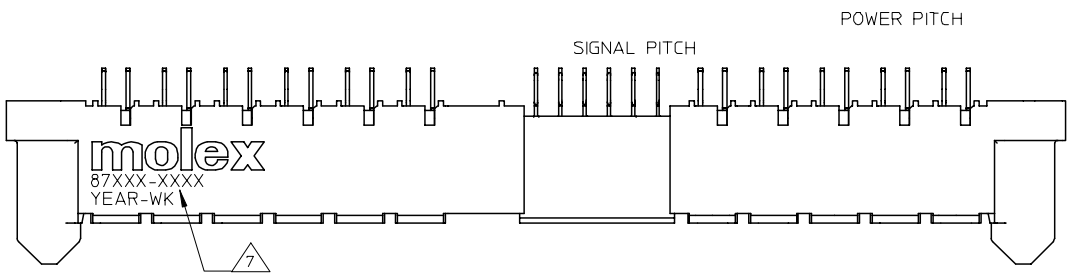
Mates With
87615 EXTreme PowerPlus™ (SSI) MPS Header

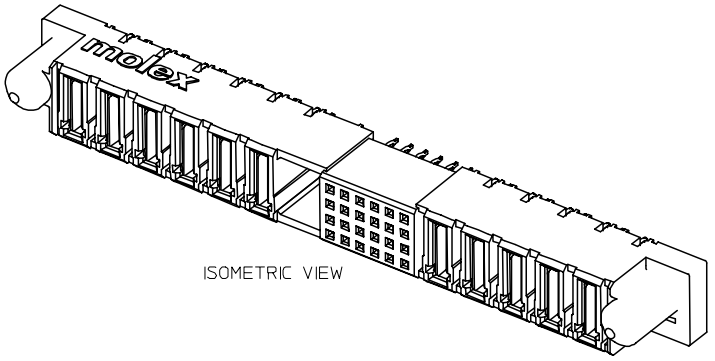
Reference - Drawing Numbers

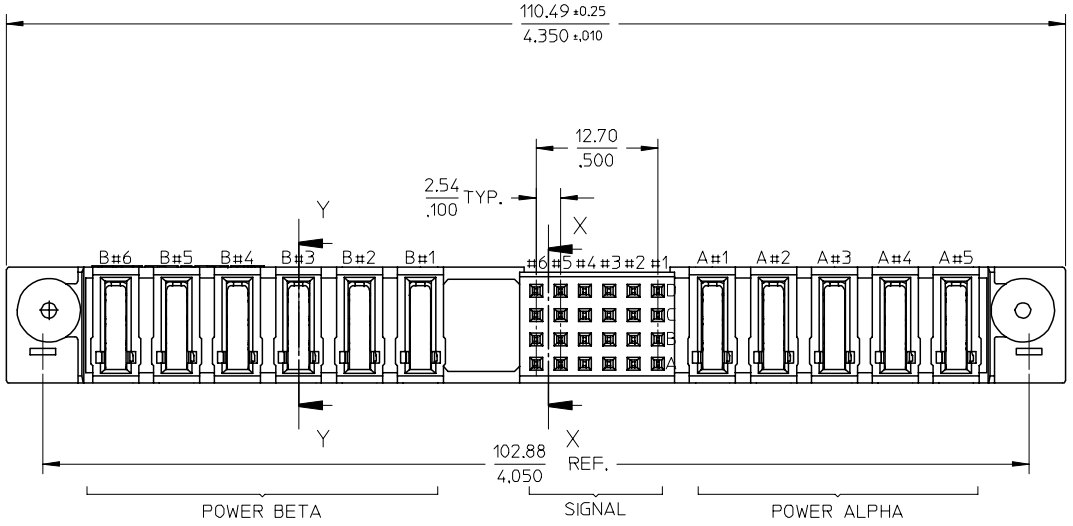
Application Specification	AS-87631-018, AS-87633-007
Product Specification	PS-87665-006
Sales Drawing	SD-87665-011

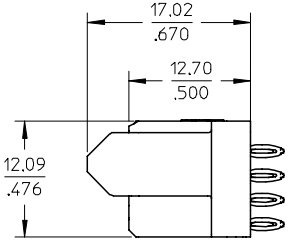
This document was generated on 05/21/2010

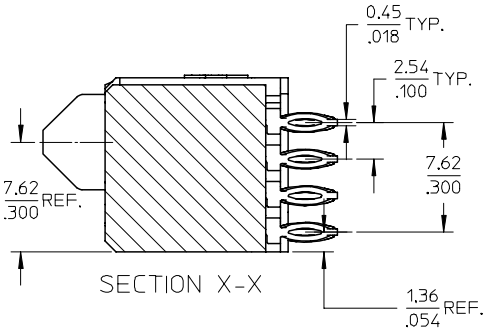
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

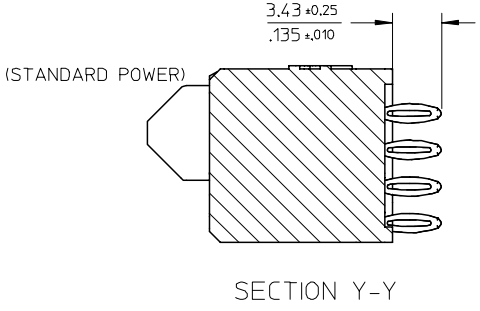












ADD ASSY P/N FOR L/F		
EC NO: S2005-0109		
DRWN:NRVITTAP	2004/08/20	
CH'KD:BH LOW	2004/08/20	
APPR: SCLOW	2004/08/20	
DESCRIPTION		
REV		

QUALITY SYMBOLS: ▼ = 0; C = 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

SCALE	NTS
DESIGN UNITS	METRIC
DIMENSION STYLE	MM/IN
DRAWN BY	KMGOH
DATE	2002/10/04
CHECKED BY	PTLIM
DATE	2002/11/25
APPROVED BY	SKTOH
DATE	2002/11/26

THIRD ANGLE PROJECTION

REVISE ON CAD ONLY

TITLE: MPS CONNECTOR, RECPT P(B)-S-P(A) CONFIG. VERTICAL PRESS-FIT

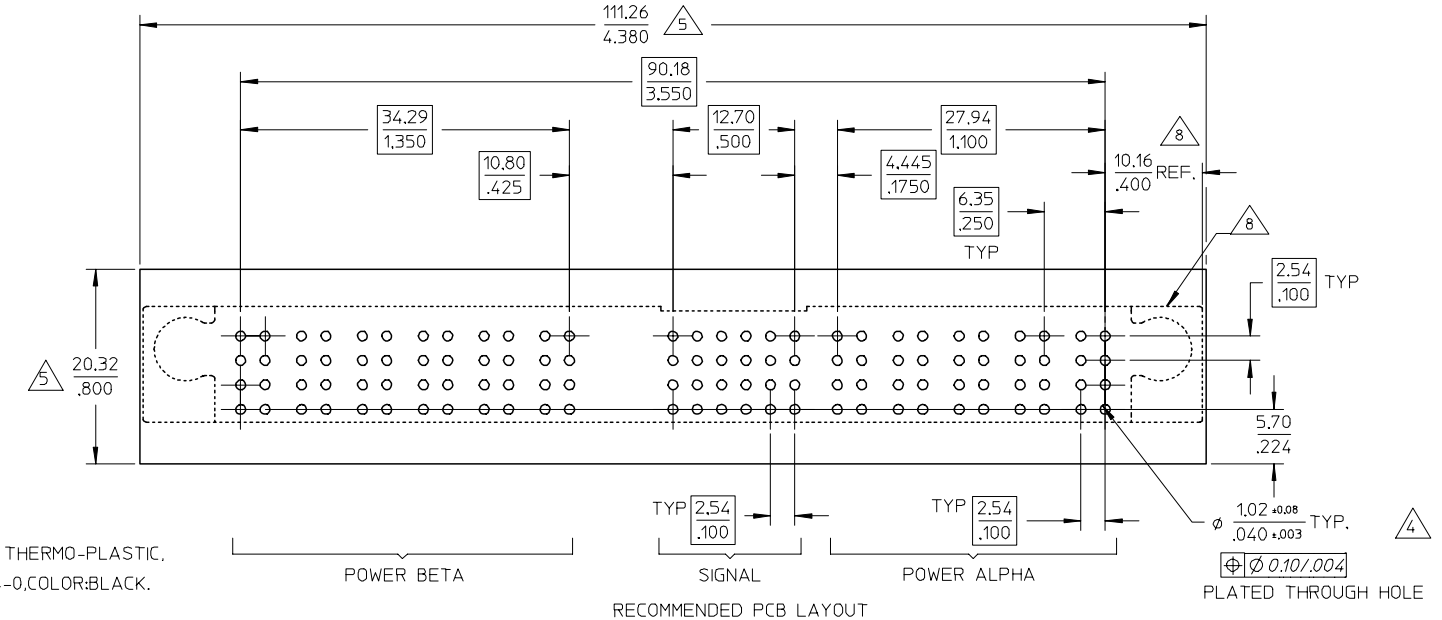
MOLEX INCORPORATED

MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE TABLE	SD-87665-011	1 OF 2

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

B

PART NUMBER	PLATING OPTION
87665-0001	TIN/LEAD
87665-1001	TIN



RECOMMENDED PCB LAYOUT
(COMPONENT SIDE)

CONNECTOR - NOTES

1. MATERIALS :
   - HOUSING - HIGH TEMPERATURE THERMO-PLASTIC, GLASS FILLED, UL94-0,COLOR:BLACK.
   - POWER PIN - COPPER ALLOY
   - BOARD-LOCK - COPPER ALLOY
2. PLATING :
   - POWER CONTACTS
   - 0.76 MICROMETER MINIMUM GOLD (Au) AT CONTACT AREA AND
   - 2.54 MICROMETER MINIMUM TIN/LEAD OR TIN AT SOLDERTAIL AREA
   - OVER 1.27um MIN. NICKEL (Ni) UNDERPLATE.
3. PRODUCT SPECIFICATION: PS-87665-006.
4. PCB NOTE FOR DIAMETER 1.02/.040 PLATED HOLE.
   - DRILLED HOLE SIZE IS 1.151/.0453
   - PLATE WITH 0.007/.0003 MINIMUM TIN/LEAD OR TIN OVER 0.03/.001 TO 0.08/.003 COPPER PLATING TO ACHIEVE 1.02±0.08/.040±.003 HOLE.
   - SEE SHEET 2 FOR RECOMMENDED PCB LAYOUT.
5. COMPONENT STAY AWAY ZONE FROM CONNECTOR.
6. 6P(B)-24S-5P(A) CONFIGURATION IS SHOWN FOR ILLUSTRATION ONLY.
7. MANUFACTURER LOGO,PART NUMBER AND YEAR-WEEK CODE.
8. IMAGINARY LINE & DIMENSION TO POSITION AND PROVIDE CONNECTOR ORIENTATION W.R.T. TO PCB LAYOUT.
9. CONNECTORS ARE PACKED IN TRAY.

REV	DESCRIPTION
C	ADD ASSY P/N FOR L/F EC NO: S2005-0109 DRWN:NRVITTAP 2004/08/20 CH'KD:BH LOW 2004/08/20 APPR: SCLOW 2004/08/20

QUALITY SYMBOLS
▼ = 0
▽C = 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

SCALE	NTS
DESIGN UNITS	METRIC
DIMENSION STYLE	MM/IN
DRAWN BY	KMGOH
DATE	2002/10/04
CHECKED BY	PTLIM
DATE	2002/11/25
APPROVED BY	SKTOH
DATE	2002/11/26

THIRD ANGLE PROJECTION
REVISE ON CAD ONLY

TITLE: MPS CONNECTOR, RECPT P(B)-S-P(A) CONFIG. VERTICAL PRESS-FIT

MOLEX INCORPORATED

MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE TABLE	SD-87665-011	2 OF 2

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

B