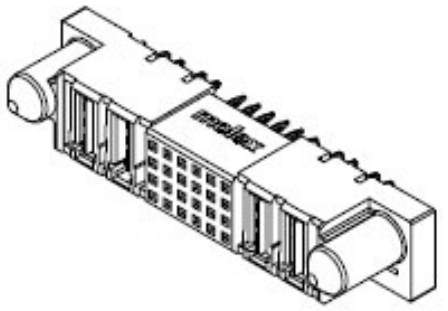
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Part Number: 0876951001
Status: Active
Overview: extreme_powerplus_ssi
Description: 6.35mm (.250") Pitch, Power, 2.54mm (.100") Pitch, Signal, EXTreme PowerPlus™ (SSI) DPS Receptacle, Press-fit, Vertical, No Recessed Pins, 0.76µm (30µ") Gold (Au) Plating, 26 Circuits, Leadfree



Series image - Reference only

Documents:

- 3D Model
- Drawing (PDF)
- Product Specification PS-87695-006 (PDF)
- RoHS Certificate of Compliance (PDF)

General

Product Family	PCB Receptacles
Series	87695
Application	Board-to-Board
Overview	extreme_powerplus_ssi
Product Literature Order No	987650-3002
Product Name	EXTreme PowerPlus™

Physical

Circuits (Loaded)	26
Circuits Detail	Power Beta 1, Signal 24, Power Alpha 1
Color - Resin	Black
Durability (mating cycles max)	100
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Lock to Mating Part	None
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)	No
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	48V

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
87695Series

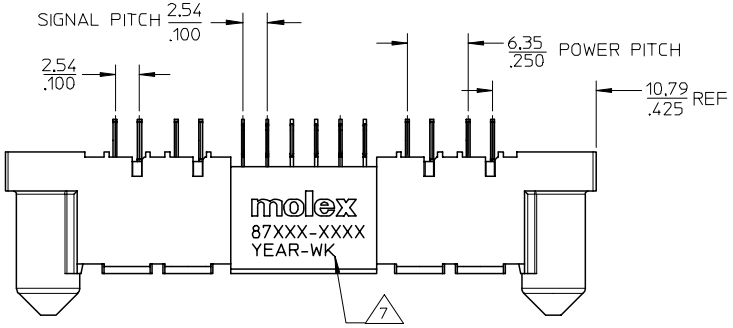
Mates With
87606 EXTreme PowerPlus™ (SSI) DPS Header

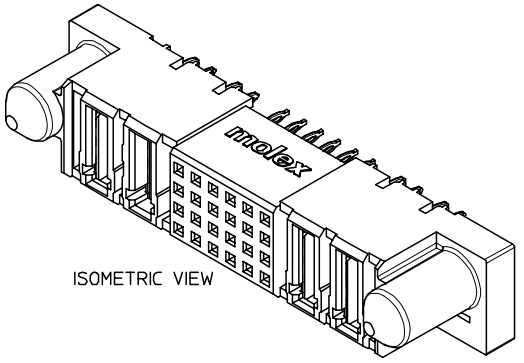
Reference - Drawing Numbers

Application Specification	AS-87631-018, AS-87633-007
Product Specification	PS-87695-006
Sales Drawing	SD-87695-011

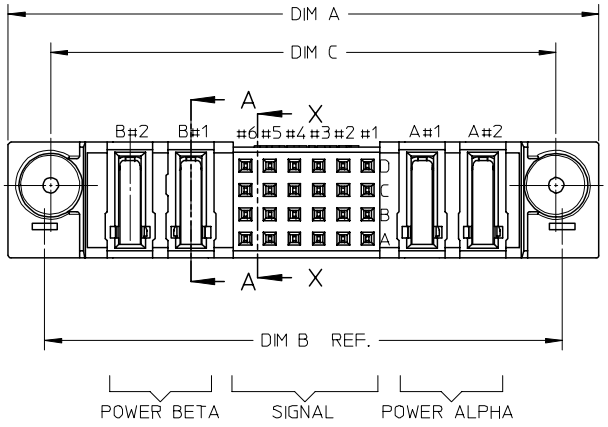
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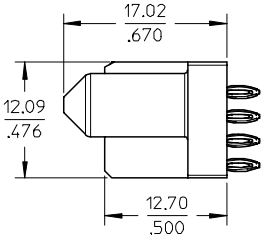
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION





ISOMETRIC VIEW





ADD ASSY P/N FOR LF		
EC NO: S2005-0101		
DRWN:NRVITTAP	2004/09/08	
CH'KD:PTLIM	2004/09/09	
APPR: SCLOW	2004/09/09	
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	2002/09/12
CHECKED BY	PTLIM
DATE	2002/11/21
APPROVED BY	SKTOH
DATE	2002/11/21

THIRD ANGLE PROJECTION

REVISE ON CAD ONLY

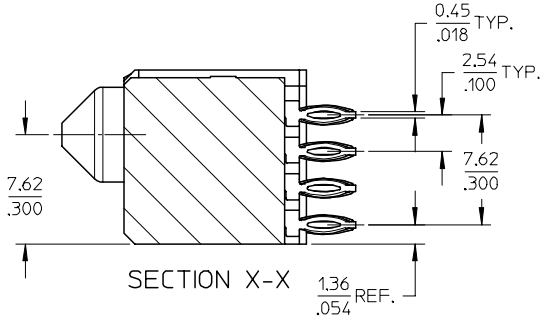
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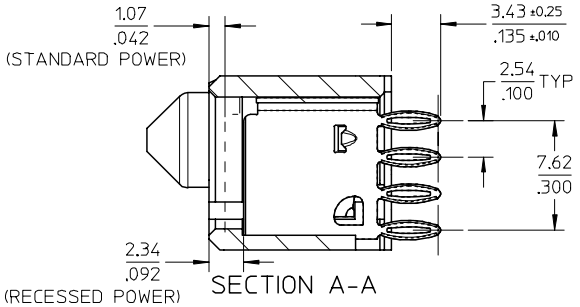
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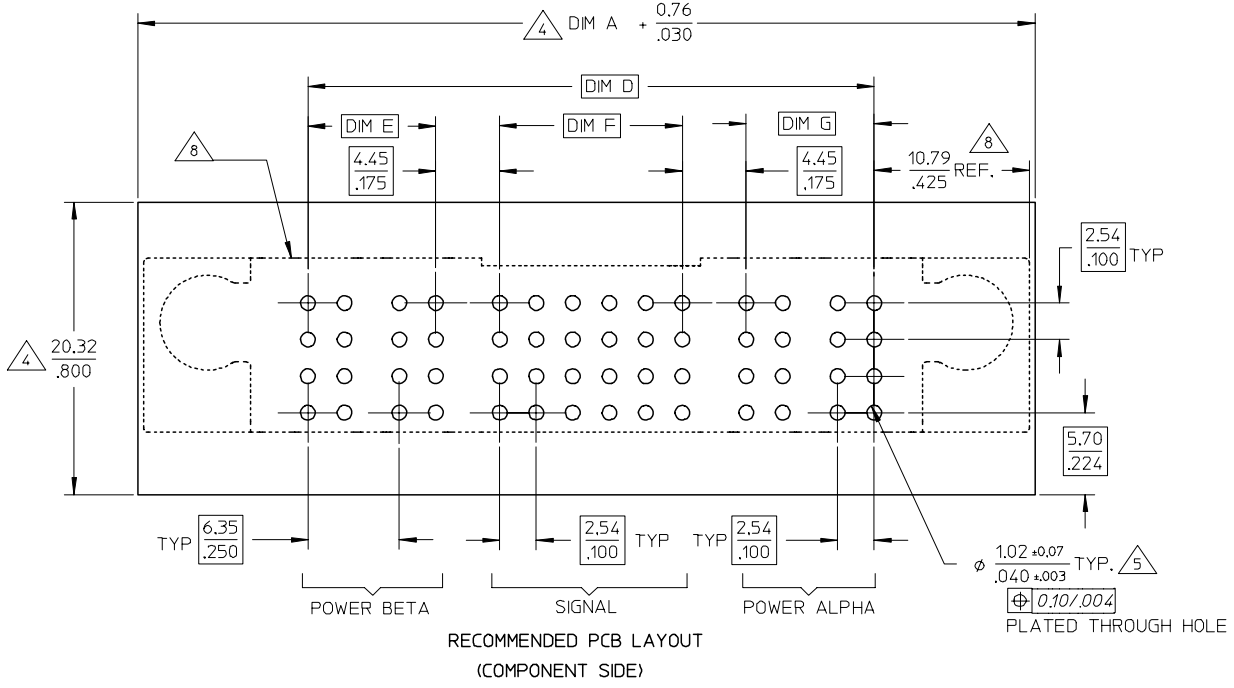
MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE TABLE	SD-87695-011	1 OF 3

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B







RECOMMENDED PCB LAYOUT
(COMPONENT SIDE)

ADD ASSY P/N FOR LF
EC NO: S2005-0101
DRWN:NRVITTAP 2004/09/08
CH'KD:PTLIM 2004/09/09
APPR:SCLOW 2004/09/09
DESCRIPTION
REV
C

QUALITY SYMBOLS
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C = 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

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3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

SCALE	DESIGN UNITS
NTS	METRIC

THIRD ANGLE PROJECTION
REVISE ON CAD ONLY

DIMENSION STYLE: MM/IN

DRAWN BY	DATE
KMGOH	2002/09/12
CHECKED BY	DATE
PTLIM	2002/11/21
APPROVED BY	DATE
SKTOH	2002/11/21

TITLE
DPS CONNECTOR RECEPTACLE
P(B)-S-P(A) CONFIG.
VERTICAL PRESS-FIT

molex MOLEX INCORPORATED

MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE TABLE	SD-87695-011	2 OF 3

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B

PART NUMBER	P-S-P CONFIGURATION POWER BETA	SIGNAL	POWER ALPHA	RECESSED POWER CIRCUIT	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	PACKAGING	PLATING OPTION
87695-0001	1	24	1	NIL	48.90 / 1.925	41.28 / 1.625	40.01 / 1.575	26.67 / 1.050	2.54 / .100	12.70 / .500	2.54 / .100	TRAY	TIN/LEAD
87695-0007	1	24	1	B#1	48.90 / 1.925	41.28 / 1.625	40.01 / 1.575	26.67 / 1.050	2.54 / .100	12.70 / .500	2.54 / .100	TRAY	
87695-0008	1	24	1	A#1	48.90 / 1.925	41.28 / 1.625	40.01 / 1.575	26.67 / 1.050	2.54 / .100	12.70 / .500	2.54 / .100	TRAY	
87695-1001	1	24	1	NIL	48.90 / 1.925	41.28 / 1.625	40.01 / 1.575	26.67 / 1.050	2.54 / .100	12.70 / .500	2.54 / .100	TRAY	TIN
87695-1007	1	24	1	B#1	48.90 / 1.925	41.28 / 1.625	40.01 / 1.575	26.67 / 1.050	2.54 / .100	12.70 / .500	2.54 / .100	TRAY	
87695-1008	1	24	1	A#1	48.90 / 1.925	41.28 / 1.625	40.01 / 1.575	26.67 / 1.050	2.54 / .100	12.70 / .500	2.54 / .100	TRAY	

CONNECTOR - NOTES

1. MATERIALS :
   HOUSING - HIGH TEMPERATURE THERMO-PLASTIC,
   GLASS FILLED, UL94-0,COLOR:BLACK.
   POWER PIN - 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-87695-006.
4. COMPONENT STAY AWAY ZONE FROM CONNECTOR.
5. 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.
6. 2P(B)-24S-2P(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.

REV	DESCRIPTION	DRWN	CH'KD	APPR	DATE
C	ADD ASSY P/N FOR LF EC NO: S2005-0101	NRVITTA	PTLIM	SCLOW	2004/09/08 2004/09/09 2004/09/09

QUALITY SYMBOLS
▼ = 0
▽ (C) = 0

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ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION
REVISE ON CAD ONLY
DIMENSION STYLE: MM/IN

TITLE: DPS CONNECTOR RECEPTACLE P(B)-S-P(A) CONFIG. VERTICAL PRESS-FIT

DRAWN BY: KMGOH	DATE: 2002/09/12	
CHECKED BY: PTLIM	DATE: 2002/11/21	
APPROVED BY: SKTOH	DATE: 2002/11/21	

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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87695-011
SHEET NO.: 3 OF 3

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