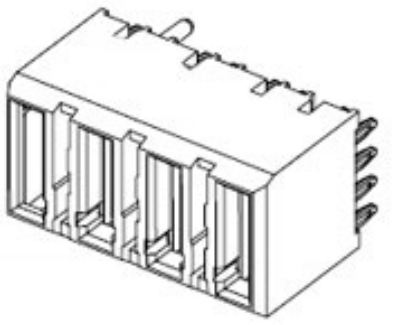
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Part Number: 0876802002
Status: Active
Overview: extreme_powerplus_ssi
Description: 6.35mm (.250") Pitch, Power, EXTreme PowerPlus™ All Power Receptacle, Press-fit, Vertical, 0.76µm (30µ") Gold (Au), 4 Circuits, Tin



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-87680-006 (PDF)
RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980

General

Product Family	PCB Receptacles
Series	87680
Application	Board-to-Board
Comments	Recessed Power Circuit Position: 2, 3, 4
Overview	extreme_powerplus_ssi
Product Name	EXTreme PowerPlus™

Physical

Circuits (Loaded)	4
Circuits Detail	Power 4
Color - Resin	Black
Durability (mating cycles max)	100
Flammability	94V-0
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	1
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)	0.250 In
Pitch - Mating Interface (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 +105°C
Termination Interface: Style	Through Hole - Compliant Pin

Electrical

Current - Maximum per Contact	30A

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
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
87680Series

Mates With
87658 EXTreme PowerPlus™ Header

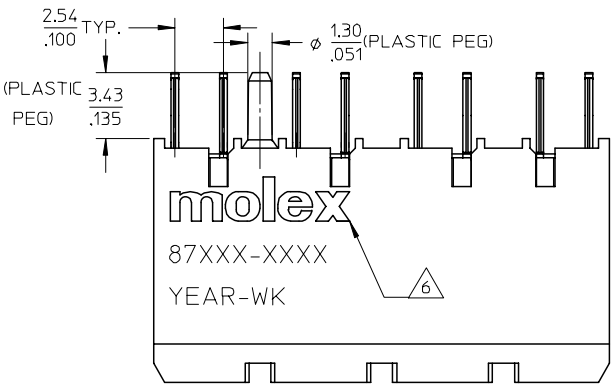
Voltage - Maximum	48V

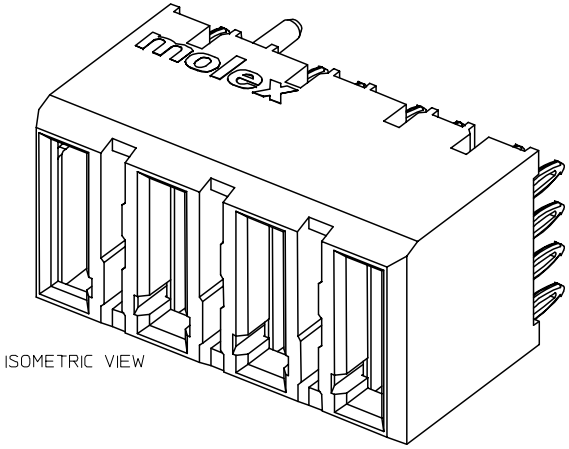
Material Info

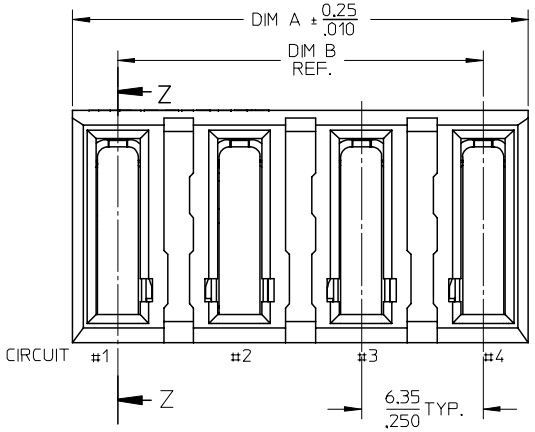
Reference - Drawing Numbers

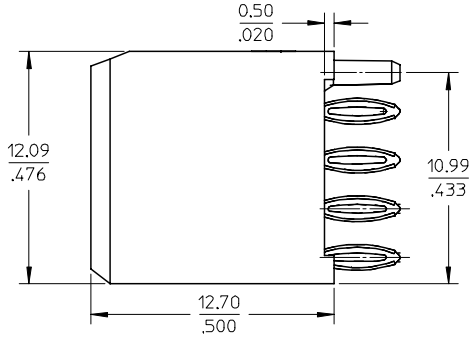
Application Specification	AS-87631-018, AS-87633-007
Product Specification	PS-87680-006
Sales Drawing	SD-87680-010

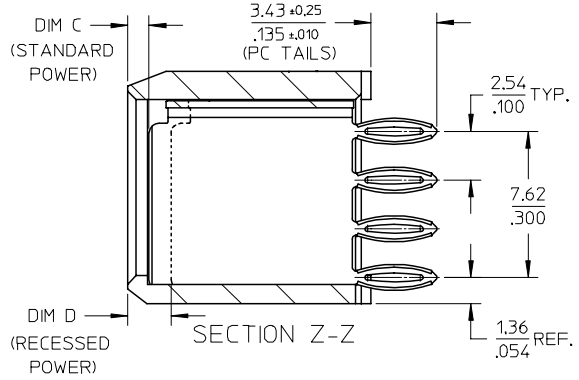
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ADD ASSY P/N FOR L/F
EC NO: S2005-0091
DRWN:NRVITTAP 2004/08/10
CH'KD:PTLIM 2004/08/10
APPR: SCLOW 2004/08/11
DESCRIPTION
REV

QUALITY SYMBOLS
▼ = 0
▽C = 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .005
2 PLACES	± 0.13	± ---
1 PLACE	± ---	± ---
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	2002/08/27
CHECKED BY	DATE
PTLIM	2002/11/25
APPROVED BY	DATE
SKTOH	2002/11/26

TITLE
POWER CONN. RECEPTACLE
POWER CONFIGURATION
VERTICAL PRESS-FIT

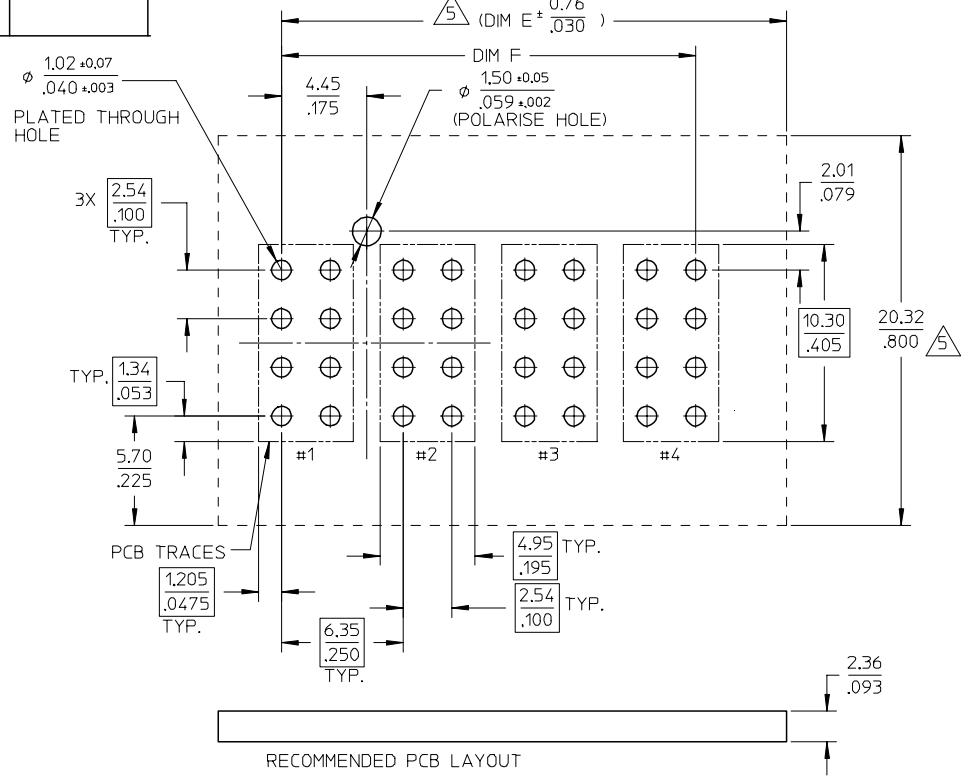
MOLEX INCORPORATED

MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE TABLE	SD-87680-010	1 OF 2

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

B

PART NUMBER	NUMBER OF POWER PINS	RECESSED POWER CIRCUIT #	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	PACKAGING	STATUS	PLATING OPTION
87680-8001	2	2	11.05 / .435	6.35 / .250	1.12 / .044	2.39 / .094	13.63 / .537	8.89 / .350	TRAY	TOOLED	TIN/LEAD
87680-8002	4	2,3,4	23.75 / .935	19.05 / .750	1.12 / .044	2.39 / .094	26.33 / 1.037	21.59 / .850	TRAY	TOOLED	
87680-2001	2	2	11.05 / .435	6.35 / .250	1.12 / .044	2.39 / .094	13.63 / .537	8.89 / .350	TRAY	TOOLED	TIN
87680-2002	4	2,3,4	23.75 / .935	19.05 / .750	1.12 / .044	2.39 / .094	26.33 / 1.037	21.59 / .850	TRAY	TOOLED	



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-87680-006.
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. MANUFACTURER LOGO,PART NUMBER AND YEAR-WEEK CODE.

ADD ASSY P/N FOR L/F 2004/08/10
EC NO: S2005-0091 DRWN:NRVITTAP 2004/08/10
CH'KD:PTLIM 2004/08/11
APPR: SCLOW
DESCRIPTION
REV C

QUALITY SYMBOLS
▼ = 0
▽(C) = 0

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .005
2 PLACES	± 0.13	± ---
1 PLACE	± ---	± ---
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	2002/08/27
CHECKED BY	DATE
PTLIM	2002/11/25
APPROVED BY	DATE
SKTOH	2002/11/26

TITLE: POWER CONN. RECEPTACLE POWER CONFIGURATION VERTICAL PRESS-FIT

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87680-010
SHEET NO.: 2 OF 2

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