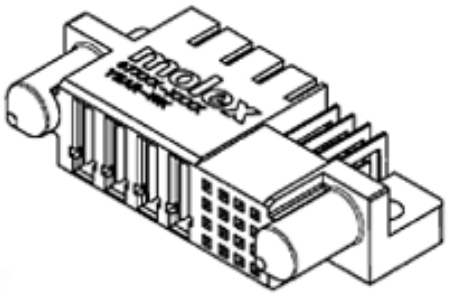
This document was generated on 05/22/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0878082003
Status: Active
Overview: extreme_powerplus_ssi
Description: 5.08mm (.200") Pitch Power, 2.54mm (.100") Pitch Signal, EXTreme PowerPlus™ S-P(B) Receptacle, Through Hole, Right Angle, Screw Mount, 0.76µm (30µ") Gold(Au) Plating, 22 Circuits, Power Beta 6, Signal 16, NoRecessed Power Circuit, Lead-free



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-87805-006 (PDF)
RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Receptacles
Series	87808
Application	Board-to-Board
Comments	Recessed Power Circuit Position: NIL
Overview	extreme_powerplus_ssi
Product Name	EXTreme PowerPlus™

Physical

Circuits (Loaded)	30
Circuits (maximum)	30
Circuits Detail	Power Beta 6, Signal 24
Color - Resin	Black
Durability (mating cycles max)	100
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Lock to Mating Part	Yes
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	1
Orientation	Right Angle
PC Tail Length (in)	0.135 In
PC Tail Length (mm)	3.43 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.57 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.100 In, 0.200 In
Pitch - Mating Interface (mm)	2.54 mm, 5.08 mm
Pitch - Term. Interface (in)	0.100 In, 0.200 In
Pitch - Term. Interface (mm)	2.54 mm, 5.08 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

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Not Reviewed
Halogen-Free Status
Not Reviewed

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
87808Series

Mates With
878072003 , 878072004 , 878072005 , 878072006 , 878072007

Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-20°C to +105°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	30A
Voltage - Maximum	250V AC (RMS)

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

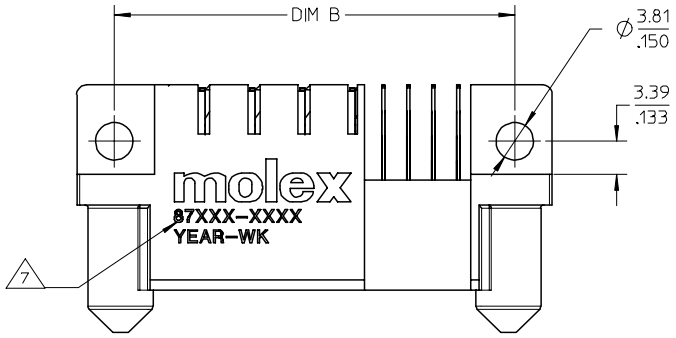
Material Info

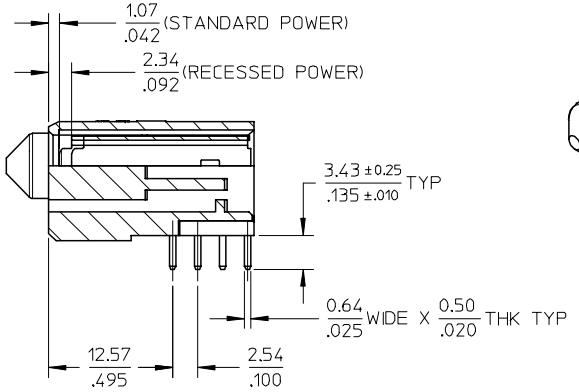
Reference - Drawing Numbers

Application Specification	AS-87631-018
Product Specification	PS-87805-006
Sales Drawing	SD-87808-005

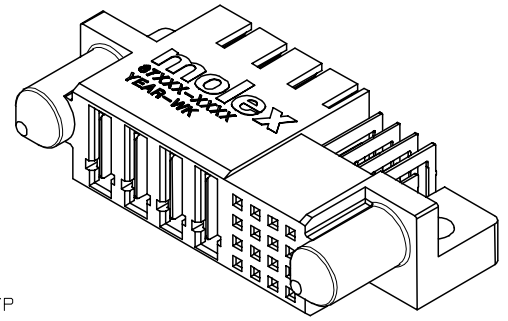
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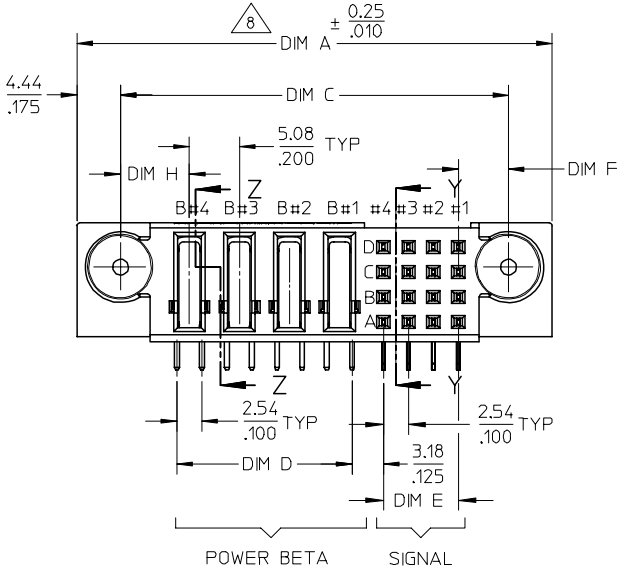
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

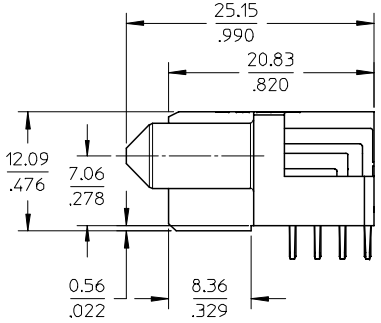


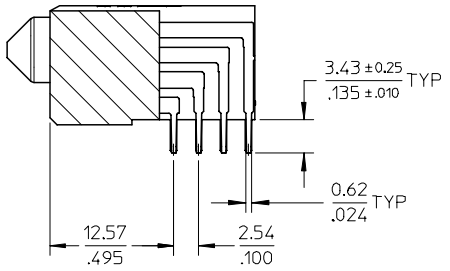


SECTION Z-Z









SECTION Y-Y

PDR#S-001714-00-00		
EC NO: S2008-0340		
DRWN:SKANG	2007/11/20	
CHKD:ATSEE	2007/11/20	
APPR:MLONG	2007/11/21	
DESCRIPTION		
A	REV	

QUALITY SYMBOLS
▼=0
▽C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

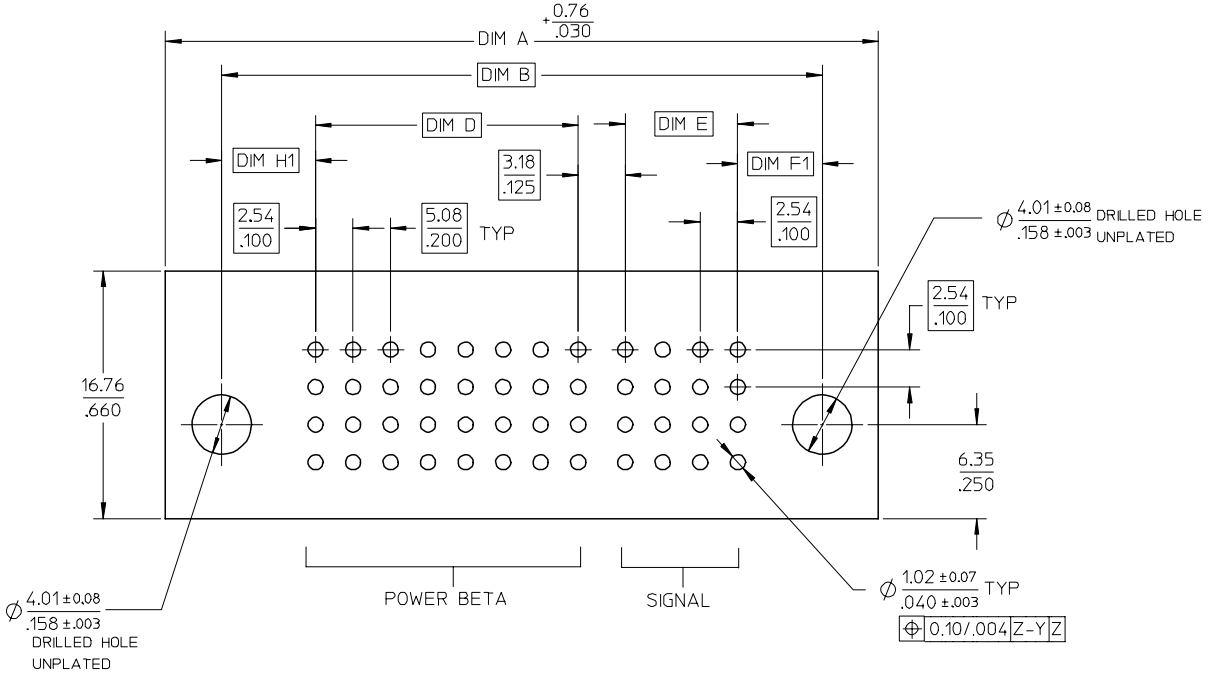
DIMENSION STYLE	MM/IN
SCALE	NTS
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	SKANG
DATE	2007/10/23
CHECKED BY	ATSEE
DATE	2007/11/20
APPROVED BY	MLONG
DATE	2007/11/20
MATERIAL NO.	SEE TABLE
DOCUMENT NO.	SD-87808-005
SHEET NO.	1 OF 2
SIZE	A3

TITLE: POWER CONN RECEPTACLE 5.08MM VERSION S-P(B), R/A, T/H, S/M

MOLEX INCORPORATED

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ASSEMBLY PART NUMBER	P-S CONFIGURATION		RECESSED POWER CIRCUIT #	DIM A	DIM B	DIM C	DIM D	DIM E	DIM H	DIM H1	DIM F	DIM F1	PACKAGING
	POWER BETA	SIGNAL											
87808-2003	6	24	NIL	63.51 / 2.500	55.88 / 2.200	54.61 / 2.150	27.94 / 1.100	12.70 / .500	6.98 / .275	6.35 / .250	5.08 / .200	5.72 / .225	TRAY



RECOMMENDED PCB LAYOUT
PCB THICKNESS 1.57MM/.062"

NOTES

1. MATERIALS :
   HOUSING - LCP, GLASS FILLED, UL94V-0,
   COLOR : BLACK.
   SIGNAL TERMINAL - COPPER ALLOY
   POWER TERMINAL - COPPER ALLOY
2. FINISH :-
   SIGNAL & POWER CONTACTS
   0.76um MIN. GOLD (Au) AT CONTACT AREA AND 2.54um MIN. TIN AT SOLDERTAIL AREA OVER 1.27um MIN. NICKEL (Ni) UNDERPLATE.
3. PRODUCT SPECIFICATION : PS-87805-006
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 OVER 0.03/.001 TO 0.08/.003 COPPER PLATING TO ACHIEVE 1.02±0.08/.040±.003 HOLE.
6. ALL TERMINAL TIPS ARE DESIGNED WITH EXPOSE BASE COPPER. THIS IS CREATED BY FINAL CUTTING PROCESS.
7. MANUFACTURER LOGO, PART NUMBER AND YEAR-WEEK CODE.
8. 4 POWER BETA - 16 SIGNAL IS SHOWN FOR ILLUSTRATION. POWER-SIGNAL CONFIGURATION IS AVAILABLE UP TO 203MM/8INCH. PLEASE CONTACT MOLEX SALES PERSONNEL FOR OTHER CONFIGURATION AND OPTION NEEDED.

PDR#S-001714-00-00
EC NO: S2008-0340 2007/11/20
DRWN:SKANG 2007/11/20
CHKD:ATSEE 2007/11/21
APPR:MLONG
DESCRIPTION
A
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---

ANGULAR ± 3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: SKANG DATE: 2007/10/23
CHECKED BY: ATSEE DATE: 2007/11/20
APPROVED BY: MLONG DATE: 2007/11/20
MATERIAL NO.: SEE TABLE

TITLE: POWER CONN RECEPTACLE 5.08MM VERSION S-P(B), R/A, T/H, S/M
molex MOLEX INCORPORATED
DOCUMENT NO.: SD-87808-005
SHEET NO.: 2 OF 2
SIZE: A3

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