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Part Number: [0878083001](#)
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, Beveled Metal Pins, 0.76µm (30µ") Gold(Au) Plating, 22 Circuits, Power Beta 6, Signal 16, No Recessed Power Circuit, Lead-free

Documents:
[3D Model](#) [Product Specification PS-87805-006 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

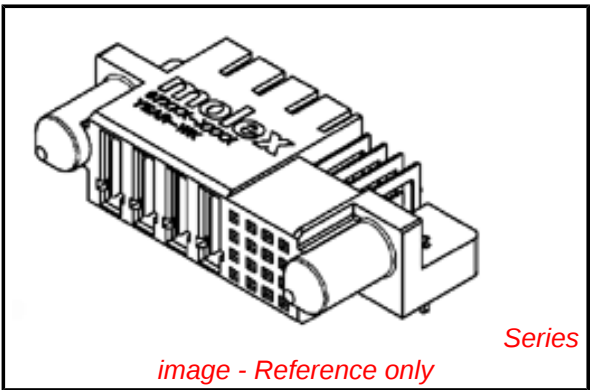
CSA	LR19980
UL	E29179

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)	22
Circuits (maximum)	22
Circuits Detail	Power Beta 6, Signal 16
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), Phosphor Bronze
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



EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Halogen-Free

**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.

China RoHS



Search Parts in this Series

[87808Series](#)

Mates With

[878072002](#)

Polarized to PCB	Yes
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

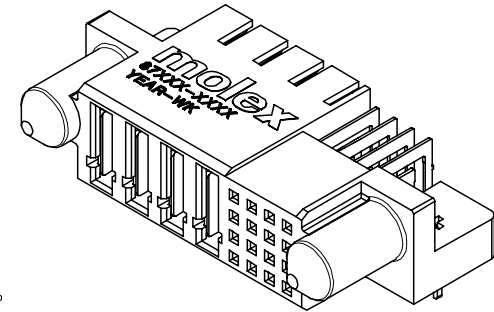
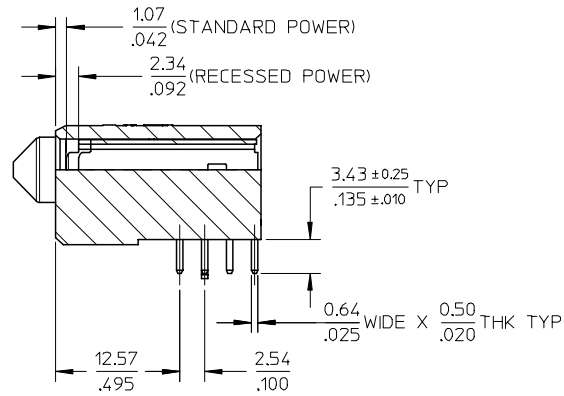
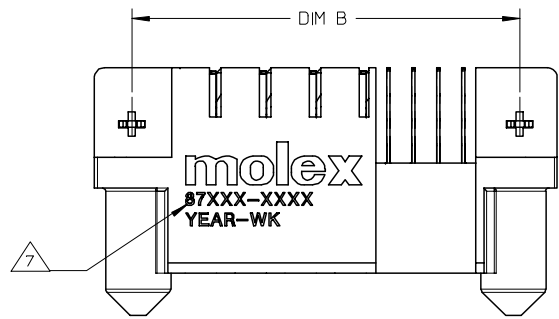
Material Info

Reference - Drawing Numbers

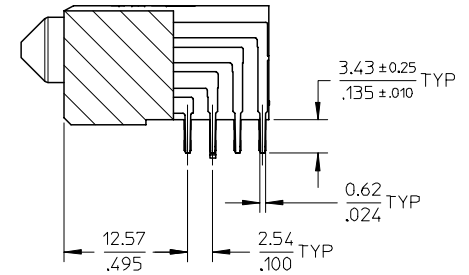
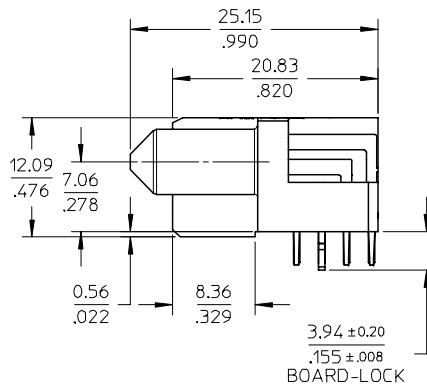
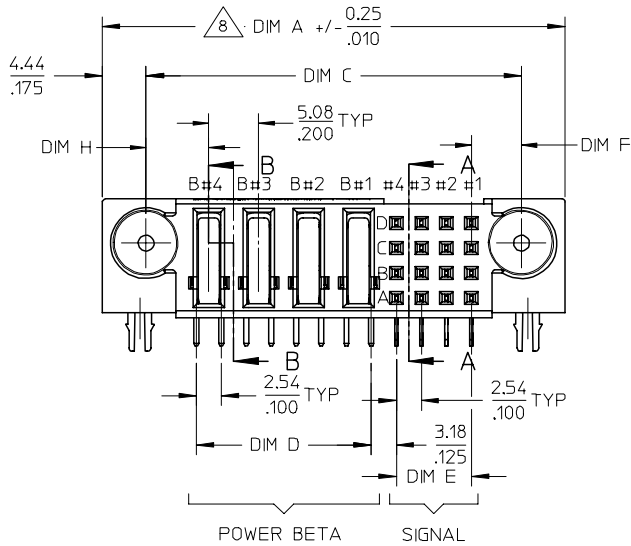
Application Specification	AS-87631-018
Product Specification	PS-87805-006
Sales Drawing	SD-87808-001

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SECTION B-B



SECTION A-A

OBS TIN/LEAD P/N		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
EC NO: S2006-0807		▼=0		4 PLACES ± --- ± ---		DRAWN BY DATE		TITLE			
DRWN:MLONG		▽=0		3 PLACES ± --- ± .010		BHLOW 2003/04/24		POWER CONN RECEPTACLE			
CHKD:CGOH				2 PLACES ± 0.25 ± ---		CHECKED BY DATE		5.08MM VERSION			
APPR:PTL IM				1 PLACE ± --- ± ---		PTL IM 2003/05/06		S-P(B), R/A, T/H			
				ANGULAR ± 3 °		APPROVED BY DATE		MOLEX MOLEX INCORPORATED			
				DRAFT WHERE APPLICABLE		SKT0H 2003/05/07		DOCUMENT NO.		SHEET NO.	
				MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		SD-87808-001		1 OF 2	
						SEE TABLE					
						SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

