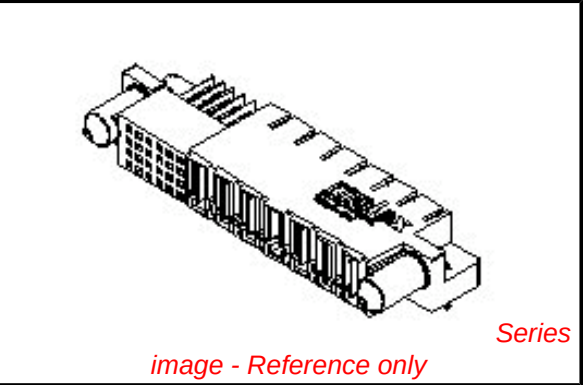


PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:
Status:
Overview:
Description:

0877003005
Active
extreme_powerplus_ssi
6.35mm (.250") Pitch, Power, 2.54mm (.100") Pitch, Signal, EXTreme PowerPlus™ Pa-S Receptacle, Through Hole, with Beveled Metal Pins, Right Angle, Signal 16, Power Alpha 4, 20 Circuits, Leadfree



Documents:	
3D Model	Product Specification PS-87631-006 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

General	
Product Family	PCB Receptacles
Series	87700
Application	Board-to-Board
Comments	No Recessed Power Circuit Position
Overview	extreme_powerplus_ssi
Product Literature Order No	987650-3002
Product Name	EXTreme PowerPlus™
Physical	
Circuits (Loaded)	20
Circuits Detail	Signal 16, Power Alpha 4
Color - Resin	Black
Durability (mating cycles max)	100
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Lock to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	4
Orientation	Right Angle
PC Tail Length (in)	0.135 In
PC Tail Length (mm)	3.43 mm
PCB Locator	No
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.57 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.100 In, 0.250 In
Pitch - Mating Interface (mm)	2.54 mm, 6.35 mm
Pitch - Term. Interface (in)	0.100 In, 0.125 In
Pitch - Term. Interface (mm)	2.54 mm, 3.18 mm
Plating min: Mating (µin)	30.4
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.54
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Stackable	No
Temperature Range - Operating	-20°C to +105°C
Termination Interface: Style	Through Hole

Electrical

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

87700Series

Mates With

87696 EXTreme PowerPlus™ Pa-S Header

Current - Maximum per Contact	2.5A, 30A
Voltage - Maximum	250V DC

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

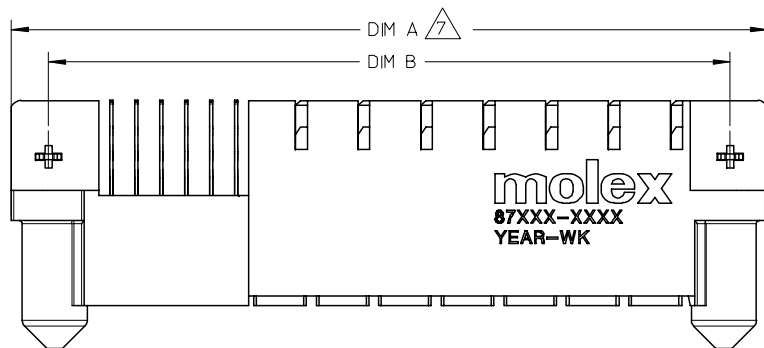
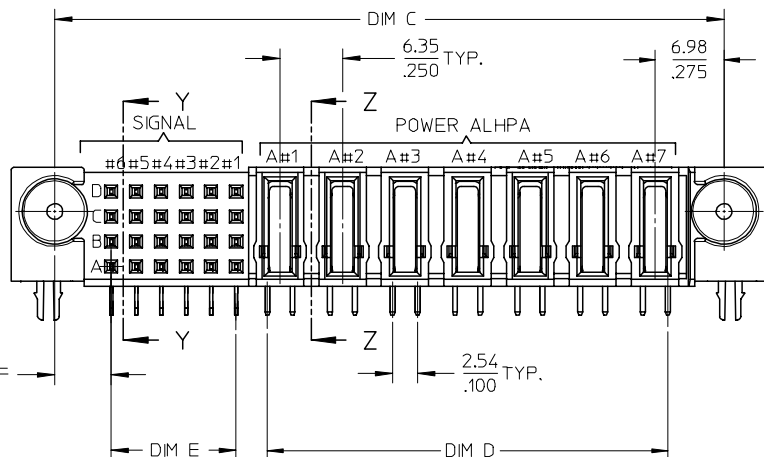
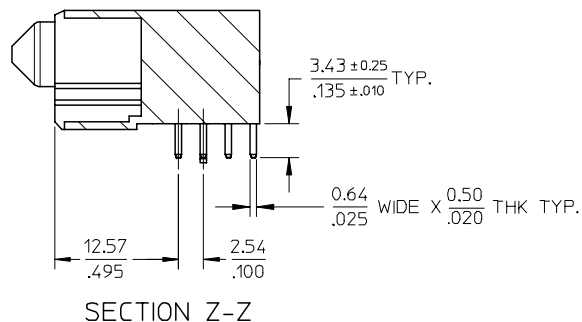
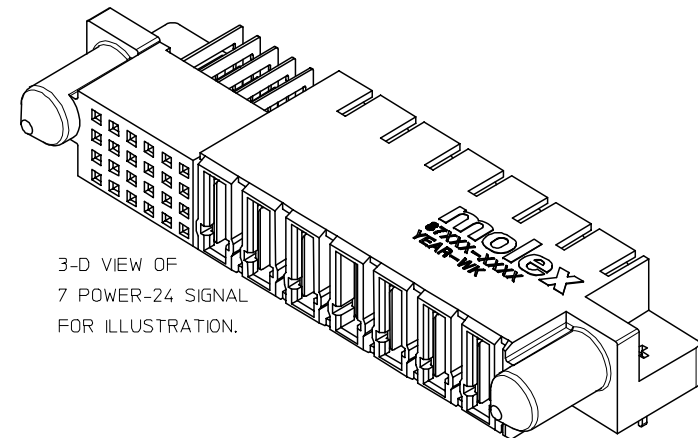
Material Info

Reference - Drawing Numbers

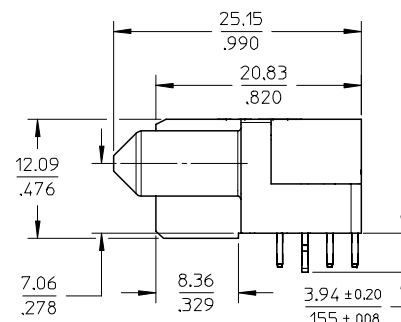
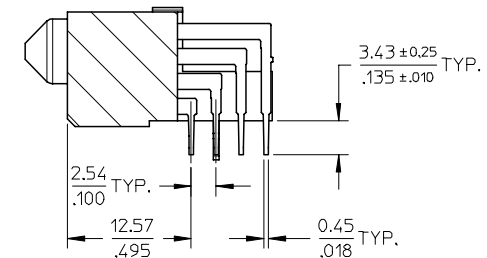
Application Specification	AS-87631-018
Product Specification	PS-87631-006
Sales Drawing	SD-87700-010

This document was generated on 05/22/2010

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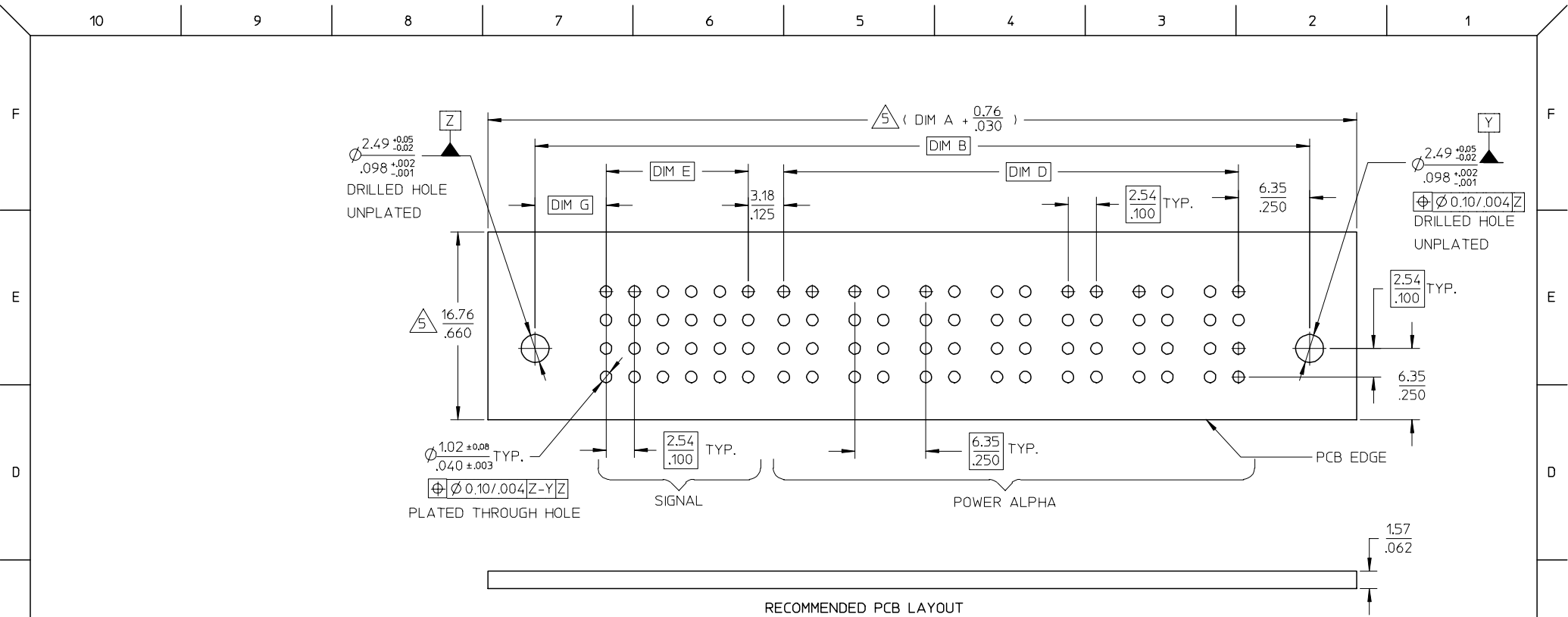


3-D VIEW OF
7 POWER-24 SIGNAL
FOR ILLUSTRATION.



SECTION Y-Y

PDR#S-001245-00-00 EC NO: S2006-1028 DRWN:KELIM CHKD:M.LONG APPR:PTLIM				DESCRIPTION QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
					DRAWN BY KMG0H		DATE 2002/08/20		TITLE POWER CONNECTOR RECEPT. P(A)-S CONFIGURATION R/A, T/H, 6.35MM			
					CHECKED BY PTLIM		DATE 2002/11/25					
					APPROVED BY SKT0H		DATE 2002/11/26		MOLEX INCORPORATED			
					MATERIAL NO.		DOCUMENT NO.					
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87700-010		1 OF 3	
							SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			



NOTES:

- 1 MATERIALS : HOUSING - LCP, GLASS FILLED,
UL 94V-0, COLOR: BLACK
POWER PINS - COPPER ALLOY
SIGNAL PINS - COPPER ALLOY
BOARD LOCK - COPPER ALLOY
- 2 FINISHES: POWER AD SIGNAL PINS
SELECTIVE GOLD IN THE CONTACT AREA
THICKNESS = 0.76 MICROMETER / 30 MICROINCH MINIMUM
SELECTIVE TIN IN THE PC TAIL AREA
THICKNESS = 2.54 MICROMETER / 100 MICROINCH MINIMUM
NICKEL OVERALL
- 3 PRODUCT SPECIFICATIONS : PS-87631-006
- 4 SEE SHEET 2 FOR RECOMMENDED PCB LAYOUT AND THICKNESS
- 5 COMPONENT STAY AWAY ZONE FROM CONNECTOR
- 6 REFER TO THE TABLE ON TOP OF PAGE 3/3 FOR RECESSED PINS LOCATION
- 7 POWER - 24 SIGNAL CONNECTOR IS SHOWN FOR ILLUSTRATION

PDR#S-001245-00-00 EC NO: S2006-1028 2006/05/09 DRWN:KFLIM CHKD:M LONG 2006/05/09 APPR:PTLIM 2006/05/10				DESCRIPTION ▽=0 ▽=0	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
			mm		INCH	DRAWN BY	DATE	TITLE POWER CONNECTOR RECEPT. P(A)-S CONFIGURATION R/A, T/H, 6.35MM					
		4 PLACES	± ---		± ---	KMG0H	2002/08/20						
		3 PLACES	± ---		± .010	CHECKED BY	DATE						
		2 PLACES	± 0.25		± ---	PTLIM	2002/11/25	MOLEX MOLEX INCORPORATED					
		1 PLACE	± ---		± ---	APPROVED BY	DATE						
		ANGULAR ± 3 °			SKT0H	2002/11/26	MATERIAL NO.		DOCUMENT NO.			SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-87700-010			2 OF 3			
D1		REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

	10		9		8		7			6		5		4		3		2		1	
F	PART NUMBER	P-S CONFIGURATION		DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	RECESS POWER PINS LOCATIONS	VOID PIN LOCATION	PACKAGING								
		SIGNAL	POWER ALPHA																		
	87700-3002	24	7	76.83 3.025	69.22 2.725	67.94 2.675	40.64 1.600	12.70 .500	5.72 .225	6.35 .250	NIL	NIL	TRAY								
	87700-3003	16	4	52.70 2.075	45.09 1.775	43.81 1.725	21.59 .850	7.62 .300	5.72 .225	6.35 .250	NIL	NIL	TRAY								
	87700-3005	16	4	52.07 2.050	44.45 1.750	43.18 1.700	21.59 .850	7.62 .300	5.08 .200	5.72 .225	NIL	NIL	TRAY								
	87700-3006	20	4	54.61 2.150	46.99 1.850	45.72 1.800	21.59 .850	10.16 0.400	5.08 .200	5.72 .225	NIL	A2,B2,C2,D2	TRAY								
E																					
D																					
C																					
B																					
A																					