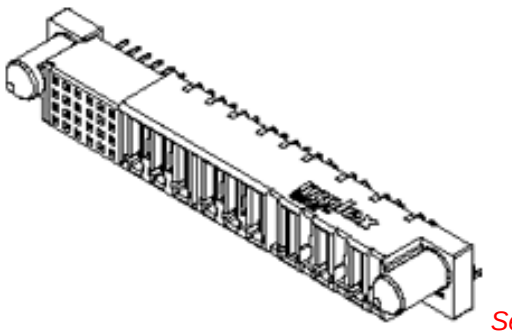
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Part Number: 0780743100
Status: Active
Overview: extreme_powerplus_ssi
Description: 7.62mm (.300"), 6.35mm (.250"), 5.08mm (.200") Pitch Power 2.54mm (.100") Pitch Signal, EXTreme PowerPlus™ Pa-S Receptacle, Through Hole, Vertical, with Beveled Metal Pins, Power Alpha 9, Signal 24, 33 Circuits, Leadfree



Series

image - Reference only

Documents:
3D Model
Drawing (PDF)
RoHS Certificate of Compliance (PDF)

Agency Certification

UL	E29179

General

Product Family	PCB Receptacles
Series	78074
Application	Board-to-Board
Comments	Recessed Power Circuit - All except A7
Overview	extreme_powerplus_ssi
Product Name	EXTreme PowerPlus™

Physical

Circuits (Loaded)	33
Circuits (maximum)	33
Circuits Detail	Power Alpha 9, Signal 24
Color - Resin	Black
Durability (mating cycles max)	100
Flammability	94V-0
Glow-Wire Compliant	No
Material - Metal	Phosphor Bronze
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	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.093 In
PCB Thickness Recommended (mm)	2.36 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.100 In, 0.200 In, 0.250 In, 0.300 In
Pitch - Mating Interface (mm)	2.54 mm, 5.08 mm, 6.35 mm, 7.62 mm
Pitch - Term. Interface (in)	0.100 In, 0.150 In, 0.200 In
Pitch - Term. Interface (mm)	2.54 mm, 3.81 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
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-20°C to +105°C

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
78074Series

Termination Interface: Style	Through Hole, Through Hole - Compliant Pin

Electrical

Current - Maximum per Contact	2.5A, 30A, 50A
Voltage - Maximum	250V DC

Solder Process Data

Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

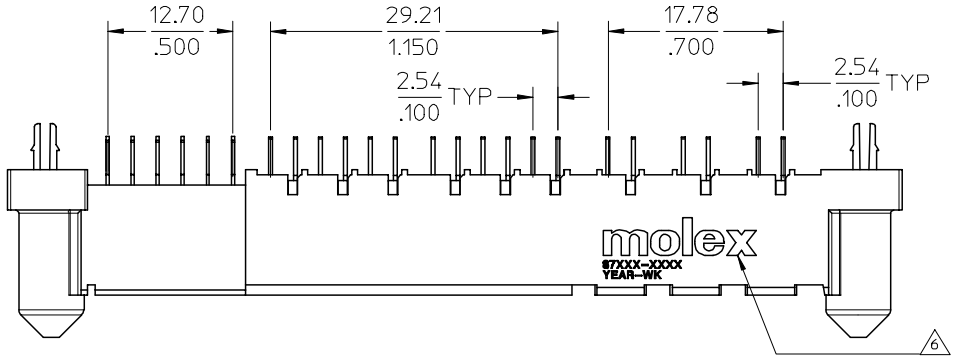
Material Info

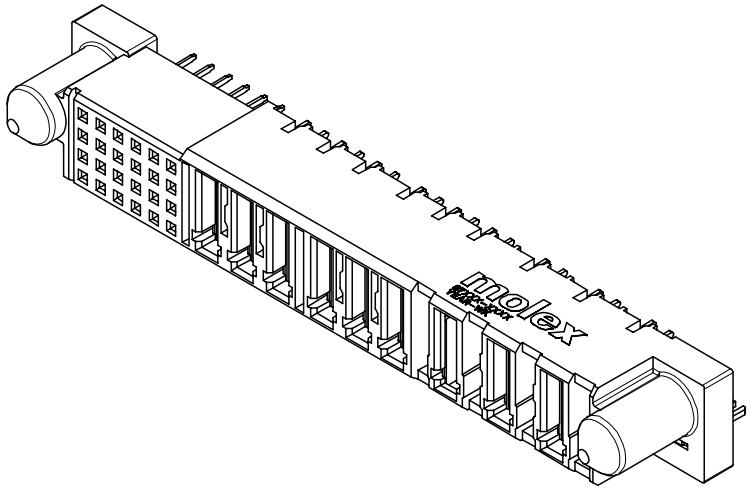
Reference - Drawing Numbers

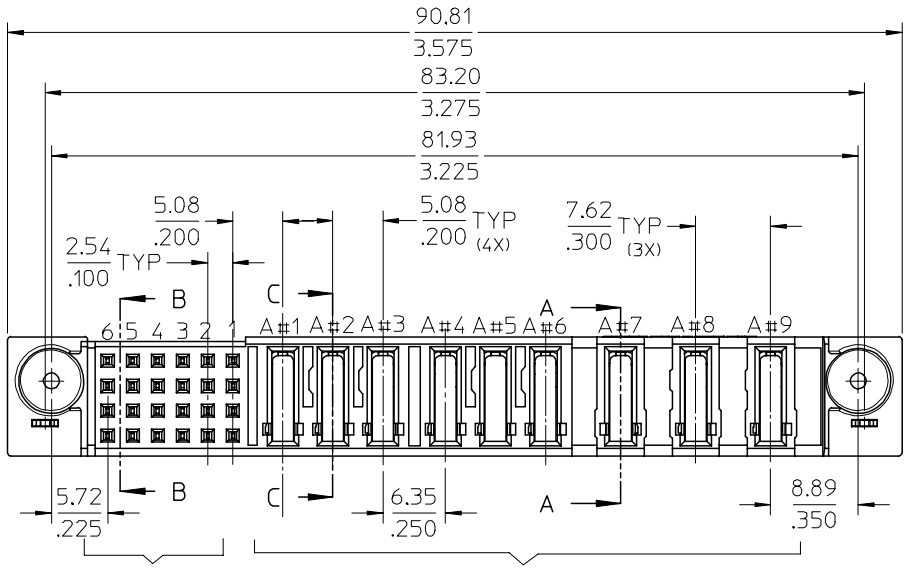
Application Specification	AS-87631-018
Sales Drawing	SD-78074-001

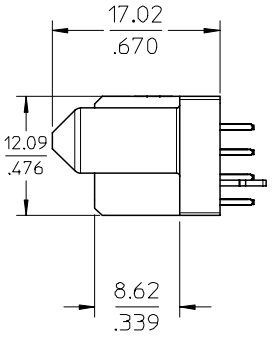
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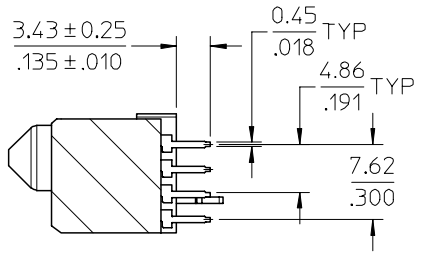
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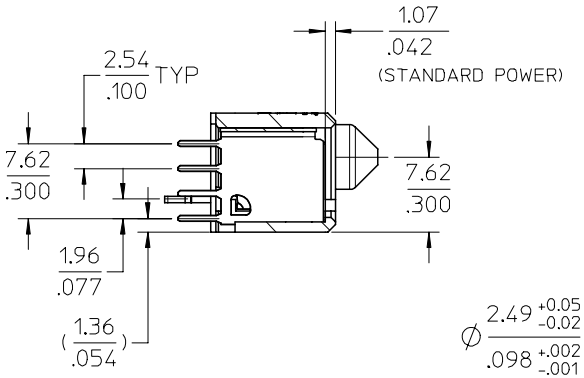


SECTION B-B

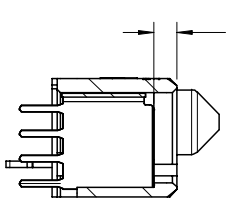
PDR#S-001554-00-00	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)
EC NO: S2007-0842 2007/04/03	▼=0	mm / INCH
DRWN:GMENARLY 2007/04/03	▽=0	4 PLACES ± --- / ± ---
CHKD:SKANG 2007/04/03		3 PLACES ± --- / ± .01
APPR:MLONG 2007/04/03		2 PLACES ± 0.25 / ± ---
DESCRIPTION		1 PLACE ± --- / ± ---
A		ANGULAR ± 3 °
REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN	SCALE: NTS	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION
DRAWN BY: GMENARLY DATE: 2007/03/27	TITLE: POWER CONN. RECEPTACLE P(A)-S CONFIGURATION VERTICAL, T/H, B/L		
CHECKED BY: SKANG DATE: 2007/03/30			
APPROVED BY: MLONG DATE: 2007/03/30	molex MOLEX INCORPORATED		
MATERIAL NO.: SEE TABLE	DOCUMENT NO.: SD-78074-001		SHEET NO.: 1 OF 2
SIZE: A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

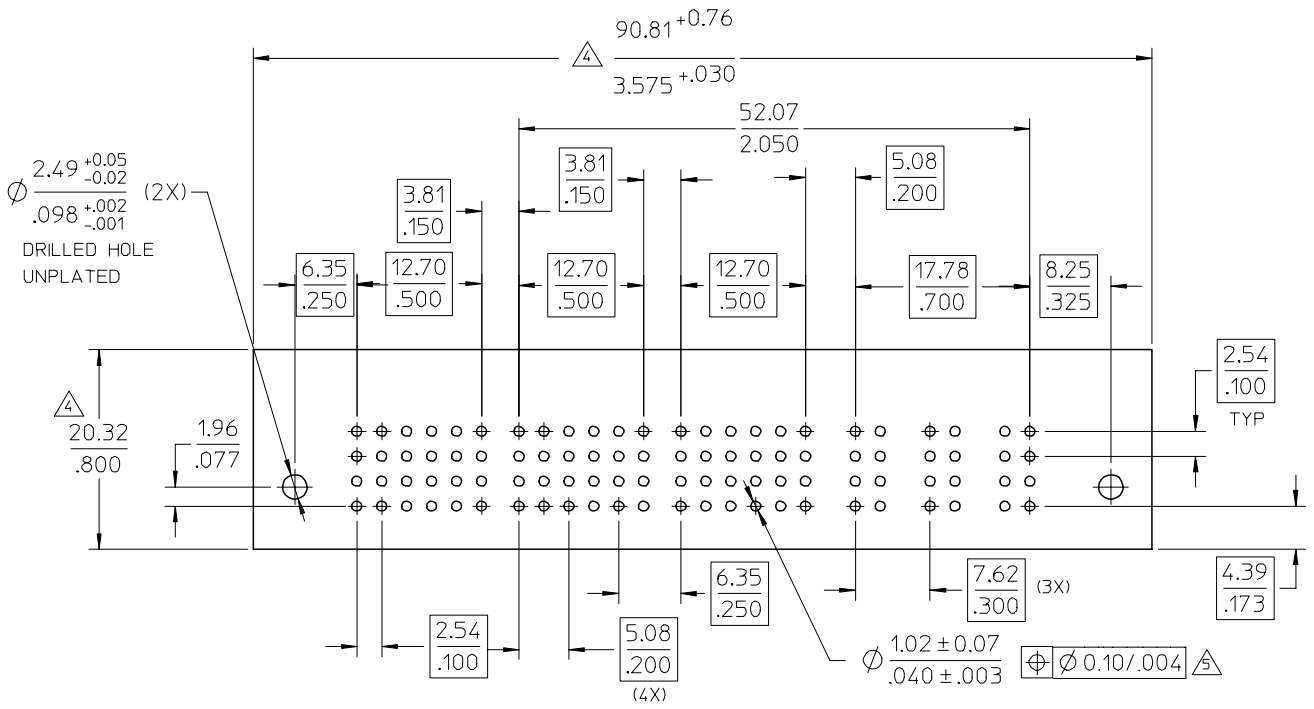
PART NUMBER	P-S CONFIGURATION		RECESSED POWER CIRCUIT	PACKAGING
	SIGNAL	POWER(ALPHA)		
78074-3100	24	9	ALL EXCEPT A7	TRAY



SECTION A-A



SECTION C-C



NOTES:
1. MATERIALS :
   HOUSING - LCP,
   GLASS FILLED, UL94-0,COLOR:BLACK.
   SIGNAL PIN - COPPER ALLOY
   POWER PIN - COPPER ALLOY
   BOARDLOCK - COPPER ALLOY
2. FINISH :
   SIGNAL & POWER CONTACTS
   0.76 MICROMETER MINIMUM GOLD (Au) AT CONTACT AREA
   AND 2.54 MICROMETER MINIMUM TIN AT SOLDERTAIL
   AREA OVER 1.27um MIN. NICKEL (Ni) UNDERPLATE.
3. PRODUCT SPECIFICATION: PS-87631-006.
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.
   SEE SHEET 2 FOR RECOMMENDED PCB LAYOUT.
6. MANUFACTURER LOGO,PART NUMBER AND YEAR-WEEK CODE.

PDR#S-001554-00-00
EC NO: S2007-0842
DRWN:GMENARLY 2007/04/03
CH'KD:SKANG 2007/04/03
APPR:MLONG 2007/04/03
DESCRIPTION
REV A

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .01
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: GMENARLY DATE: 2007/03/27
CHECKED BY: SKANG DATE: 2007/03/30
APPROVED BY: MLONG DATE: 2007/03/30

TITLE: POWER CONN. RECEPTACLE P(A)-S CONFIGURATION VERTICAL, T/H, B/L

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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-78074-001
SHEET NO.: 2 OF 2
SIZE: A3

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