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Part Number:

0876331013

Status:

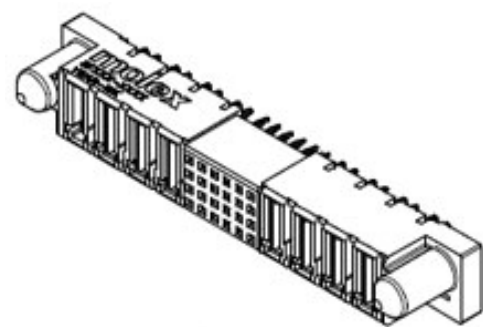
Active

Overview:

extreme_powerplus_ssi

Description:

6.35mm (.250") Pitch, Power, 2.54mm (.100") Pitch, Signal, EXTreme PowerPlus™ P-S-P Receptacle, Press-fit, Vertical, 14 Circuits, Power Beta 1, Signal 12, Power Alpha 1, No Recessed Power Circuit, without Beveled Metal Pins, Leadfree



Series

image - Reference only

Documents:

- [3D Model](#)
- [Drawing \(PDF\)](#)
- [Product Specification PS-87633-006 \(PDF\)](#)
- [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	PCB Receptacles
Series	87633
Application	Board-to-Board
Comments	No Recessed Power Circuits
Overview	extreme_powerplus_ssi
Product Literature Order No	987650-3002
Product Name	EXTreme PowerPlus™

Physical

Circuits (Loaded)	14
Circuits Detail	Power Beta 1, Signal 12, Power Alpha 1
Color - Resin	Black
Durability (mating cycles max)	100
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Keying 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	Vertical
PC Tail Length (in)	0.135 In
PC Tail Length (mm)	3.43 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.093 In
PCB Thickness Recommended (mm)	2.40 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.100 In, 0.250 In
Pitch - Mating Interface (mm)	2.54 mm, 6.35 mm
Plating min: Mating (µin)	30
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
Temperature Range - Operating	-20°C to +105°C
Termination Interface: Style	Through Hole - Compliant Pin

Electrical

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

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
87633Series

Mates With
87631 EXTreme PowerPlus™ P-S-P Header

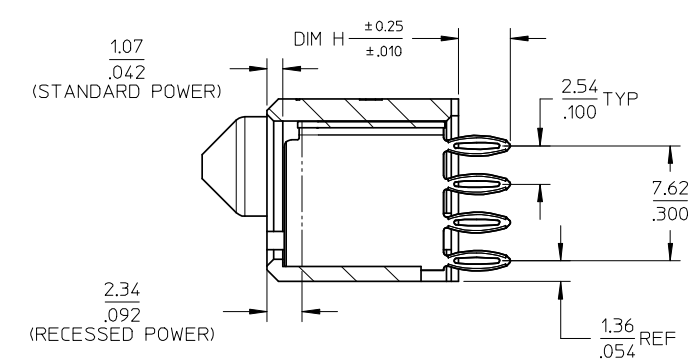
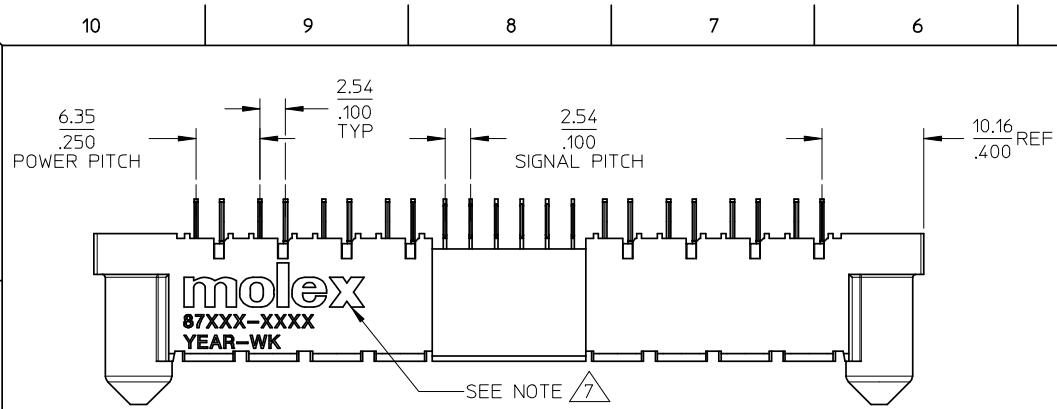
Material Info

Reference - Drawing Numbers

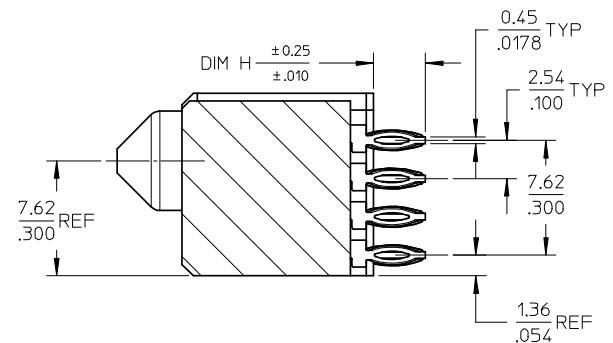
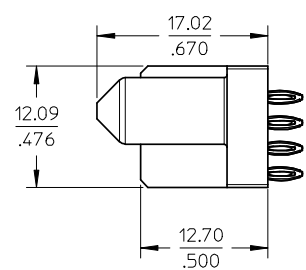
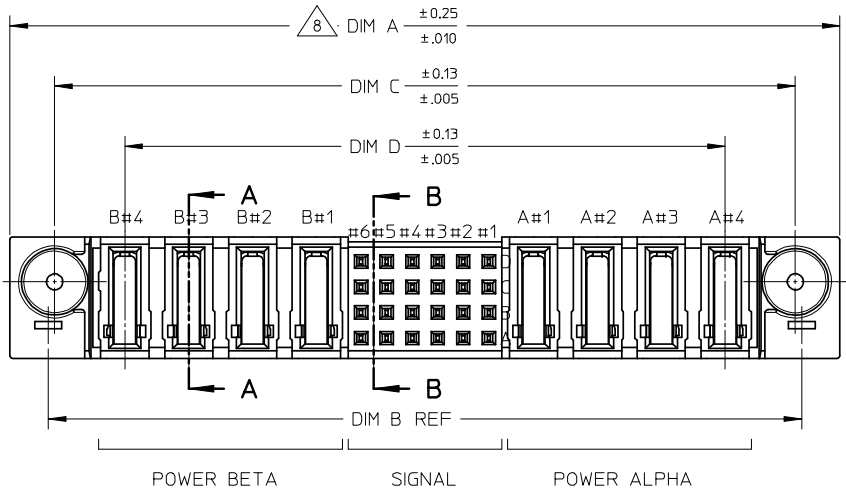
Application Specification	AS-87631-018, AS-87633-007
Product Specification	PS-87633-006
Sales Drawing	SD-87633-013

This document was generated on 05/21/2010

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SECTION A-A



SECTION B-B

PDR#S00-1777-00-00 EC NO: S2008-0921 DRW:SKANG CHKD:ATSEE APPR:MLONG REV	QUALITY SYMBOLS ▽=0 ⊥=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY KMG0H	DATE 2002/11/19	TITLE POWER CONN. RECEPTACLE P-S-P CONFIGURATION VERT. PRESS-FIT,W/G POST MOLEX INCORPORATED SD-87633-013	
		4 PLACES	± ---	± ---	± ---	CHECKED BY PTL IM	DATE 2002/11/21		
		3 PLACES	± ---	± .010	± ---	APPROVED BY SKTOH	DATE 2002/11/21		
C7	DESCRIPTION	2 PLACES	± 0.25	± ---	± ---	MATERIAL NO.		DOCUMENT NO.	
		1 PLACE	± ---	± ---	± ---	SEE TABLE		SHEET NO.	
		ANGULAR ± 3 °		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		1 OF 4			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							

NOTES

1 MATERIALS :-

HOUSING - LCP, GLASS FILLED, UL94V-0,
COLOR: BLACK.

SIGNAL TERMINAL - COPPER ALLOY

POWER TERMINAL - COPPER ALLOY

2 FINISH :-

SIGNAL & POWER CONTACTS

0.76 MICROMETER MINIMUM GOLD (Au) AT CONTACT AREA
AND 2.54 MICROMETER MINIMUM TIN/LEAD OR TIN AT SOLDER TAIL
AREA OVER 1.27um MINIMUM NICKEL (Ni) UNDERPLATE.

3 SPECIFICATIONS :-

PRODUCT SPECIFICATION : PS-87633-006

APPLICATION SPECIFICATION : AS-87633-007

4 COMPONENT STAY AWAY ZONE FROM CONNECTOR.

5 PCB NOTE FOR DIAMETER 1.02/0.40 PLATED HOLE.

- DRILLED HOLE SIZE IS 1.151/0.453

- PLATED WITH 0.007/0.003 MINIMUM TIN/LEAD OR TIN OVER
0.03/0.001 TO 0.08/0.003 COPPER PLATING TO ACHIEVE
1.02±0.08/0.40±.003 HOLE.

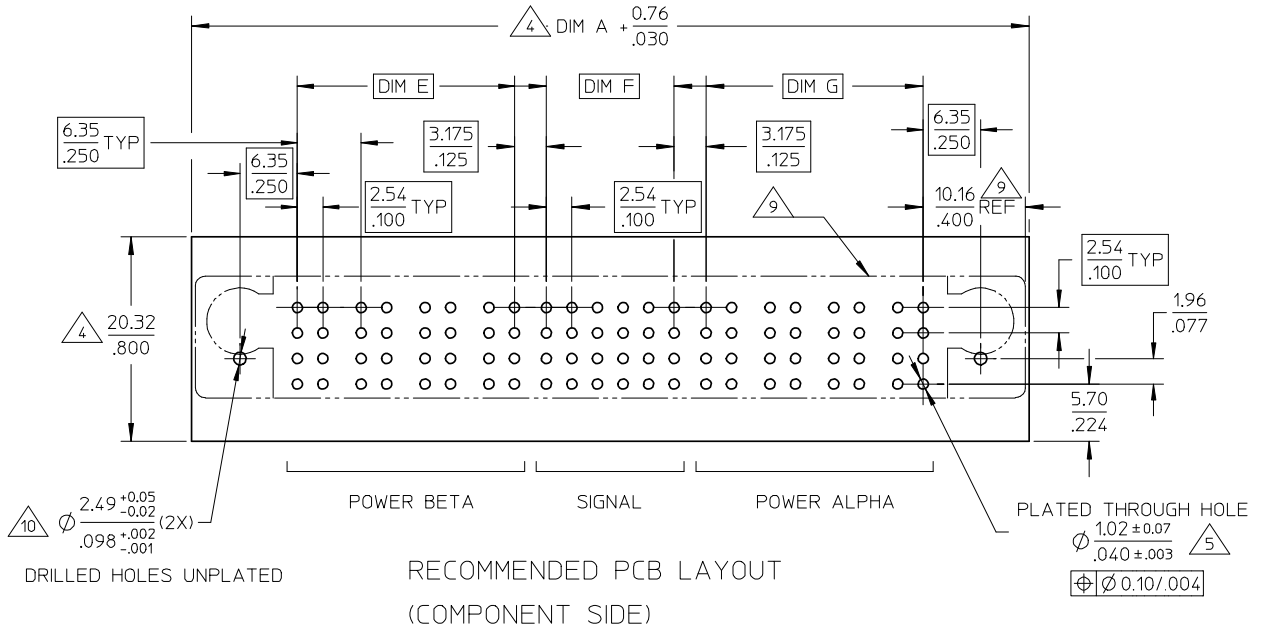
6 ALL TERMINAL TIPS ARE DESIGNED WITH EXPOSED BASE COPPER.
THIS IS CREATED BY FINAL CUTTING PROCESS AFTER PLATING.

7 MANUFACTURER LOGO, PART NUMBER AND YEAR-WEEK CODE.

8 4Pa-24S-4Pb CONFIGURATION IS SHOWN FOR ILLUSTRATION ONLY.
P-S-P CONFIGURATION IS AVAILABLE UP TO 203MM/8INCH.
PLEASE CONTACT MOLEX SALES PERSONNEL FOR OTHER
CONFIGURATION AND OPTION NEEDED.

9 IMAGINARY LINE AND DIMENSION TO POSITION AND PROVIDE
CONNECTOR ORIENTATION WITH RESPECT TO PCB LAYOUT.

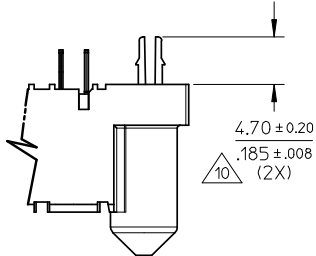
10 OPTIONAL BOARDLOCK FEATURE FOR SYMETRICAL POWER CONFIG
FULL PROOFING UPON CUSTOMER REQUEST.



DRILLED HOLES UNPLATED

RECOMMENDED PCB LAYOUT
(COMPONENT SIDE)

PDR#S00-1777-00-00		EC NO: S2008--0921		2008/04/15		2008/04/15		2008/04/15		2008/04/15		2008/04/15					
DRWN:SKANG		CHKD:ATSEE		APPR:MLONG													
C7		REV		DESCRIPTION		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
										MM/IN		NTS		METRIC			
										DRAWN BY		DATE		TITLE			
										KMG0H		2002/11/19		POWER CONN. RECEPTACLE			
										CHECKED BY		DATE		P-S-P CONFIGURATION			
										PTLIM		2002/11/21		VERT. PRESS-FIT,W/G POST			
										APPROVED BY		DATE		MOLEX		MOLEX INCORPORATED	
										SKTOH		2002/11/21		DOCUMENT NO.		SHEET NO.	
										MATERIAL NO.				SD-87633-013		2 OF 4	
										SEE TABLE							
										SIZE		A3					
										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		
PART NUMBER		P-S-P CONFIGURATION			RECESSED POWER CIRCUIT#	DIMENSIONS								BOARDLOCK OPTION 	PACKAGING	PLATING OPTION	 BOARDLOCK OPTION			
		POWER BETA	SIGNAL	POWER ALPHA		A	B	C	D	E	F	G	H							
F	87633-8000	5	24	3	NIL	82.54 3.250	74.93 2.950	73.65 2.900	59.69 2.350	27.94 1.100	12.70 .500	15.24 .600	3.43 .135	NIL	TRAY	TIN/LEAD				
	87633-8002	4	24	4	NIL	82.54 3.250	74.93 2.950	73.65 2.900	59.69 2.350	21.59 .850	12.70 .500	21.59 .850	3.43 .135							
	87633-8003	3	24	3	NIL	69.84 2.750	62.23 2.450	60.95 2.400	46.99 1.850	15.24 .600	12.70 .500	15.24 .600	3.43 .135							
	87633-8004	2	24	4	NIL	69.84 2.750	62.23 2.450	60.95 2.400	46.99 1.850	8.89 .350	12.70 .500	21.59 .850	3.43 .135							
E	87633-8005	2	48	2	A2, B2	72.38 2.850	64.77 2.550	63.49 2.500	49.53 1.950	8.89 .350	27.94 1.100	8.89 .350	3.43 .135	YES						
	87633-8011	7	32	6	NIL	119.38 4.700	111.76 4.400	110.48 4.350	96.52 3.800	40.64 1.600	17.78 .700	34.29 1.350	3.43 .135	NIL						
	87633-8013	1	12	1	NIL	36.83 1.450	29.21 1.150	27.94 1.100	13.97 .550	2.54 .100	5.08 .200	2.54 .100	3.43 .135							
	87633-8021	6	32	7	A1,A2,A3,A4 B1,B2,B5,B6	119.38 4.700	111.76 4.400	110.48 4.350	96.52 3.800	34.29 1.350	17.78 .700	40.64 1.600	3.43 .135							
D	87633-8022	4	4	4	NIL	69.85 2.750	62.23 2.450	60.96 2.400	46.99 1.850	21.59 .850	00.00 0.000	21.59 .850	3.43 .135	YES						
	87633-8014	2	16	4	A3,A4,B2	64.77 2.550	57.15 2.250	55.88 2.200	41.91 1.650	8.89 .350	7.62 .300	21.59 .850	3.43 .135	NIL						

	10	9	8		7	6	5	4		3	2	1																																																																													
F	PART NUMBER	P-S-P CONFIGURATION			RECESSED POWER CIRCUIT#	DIMENSIONS								BOARDLOCK OPTION 	PACKAGING	PLATING OPTION																																																																									
		POWER BETA	SIGNAL	POWER ALPHA		A	B	C	D	E	F	G	H																																																																												
F	87633-1000	5	24	3	NIL	<u>82.54</u> 3.250	<u>74.93</u> 2.950	<u>73.65</u> 2.900	<u>59.69</u> 2.350	<u>27.94</u> 1.100	<u>12.70</u> .500	<u>15.24</u> .600	<u>3.43</u> .135	NIL	TRAY	TIN																																																																									
	87633-1002	4	24	4	NIL	<u>82.54</u> 3.250	<u>74.93</u> 2.950	<u>73.65</u> 2.900	<u>59.69</u> 2.350	<u>21.59</u> .850	<u>12.70</u> .500	<u>21.59</u> .850	<u>3.43</u> .135																																																																												
	87633-1003	3	24	3	NIL	<u>69.84</u> 2.750	<u>62.23</u> 2.450	<u>60.95</u> 2.400	<u>46.99</u> 1.850	<u>15.24</u> .600	<u>12.70</u> .500	<u>15.24</u> .600	<u>3.43</u> .135																																																																												
	87633-1004	2	24	4	NIL	<u>69.84</u> 2.750	<u>62.23</u> 2.450	<u>60.95</u> 2.400	<u>46.99</u> 1.850	<u>8.89</u> .350	<u>12.70</u> .500	<u>21.59</u> .850	<u>3.43</u> .135																																																																												
E	87633-1005	2	48	2	A2, B2	<u>72.38</u> 2.850	<u>64.77</u> 2.550	<u>63.49</u> 2.500	<u>49.53</u> 1.950	<u>8.89</u> .350	<u>27.94</u> 1.100	<u>8.89</u> .350	<u>3.43</u> .135	YES																																																																											
	87633-1011	7	32	6	NIL	<u>119.38</u> 4.700	<u>111.76</u> 4.400	<u>110.48</u> 4.350	<u>96.52</u> 3.800	<u>40.64</u> 1.600	<u>17.78</u> .700	<u>34.29</u> 1.350	<u>3.43</u> .135	NIL																																																																											
	87633-1013	1	12	1	NIL	<u>36.83</u> 1.450	<u>29.21</u> 1.150	<u>27.94</u> 1.100	<u>13.97</u> .550	<u>2.54</u> .100	<u>5.08</u> .200	<u>2.54</u> .100	<u>3.43</u> .135																																																																												
D	87633-1021	6	32	7	A1,A2,A3,A4 B1,B2,B5,B6	<u>119.38</u> 4.700	<u>111.76</u> 4.400	<u>110.48</u> 4.350	<u>96.52</u> 3.800	<u>34.29</u> 1.350	<u>17.78</u> .700	<u>40.64</u> 1.600	<u>3.43</u> .135					YES																																																																							
	87633-1022	4	4	4	NIL	<u>69.85</u> 2.750	<u>62.23</u> 2.450	<u>60.96</u> 2.400	<u>46.99</u> 1.850	<u>21.59</u> .850	<u>00.00</u> 0.000	<u>21.59</u> .850	<u>3.43</u> .135	YES																																																																											
	87633-1014	2	16	4	A3,A4,B2	<u>64.77</u> 2.550	<u>57.15</u> 2.250	<u>55.88</u> 2.200	<u>41.91</u> 1.650	<u>8.89</u> .350	<u>7.62</u> .300	<u>21.59</u> .850	<u>3.43</u> .135	NIL																																																																											
	87633-1024	2	24	2	A2, B2	<u>57.15</u> 2.250	<u>49.53</u> 1.950	<u>48.26</u> 1.900	<u>34.29</u> 1.350	<u>8.89</u> .350	<u>12.70</u> .5000	<u>8.89</u> .350	<u>3.43</u> .135	YES																																																																											
	87633-1028					NIL																																																																																			
C	87633-1026	4	48	4	NIL	<u>97.79</u> 3.850	<u>90.17</u> 3.550	<u>88.90</u> 3.500	<u>74.93</u> 2.950	<u>21.59</u> 0.850	<u>27.94</u> 1.100	<u>21.59</u> 0.850	<u>3.43</u> .135	YES																																																																											
	87633-1029	2	16	4	NIL	<u>64.77</u> 2.550	<u>57.15</u> 2.250	<u>55.88</u> 2.200	<u>41.91</u> 1.650	<u>8.89</u> .350	<u>7.62</u> .300	<u>21.59</u> .850	<u>3.43</u> .135	NIL																																																																											
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<table><tr><td rowspan="5">PDR#S00-1777-00-00 EC NO: S2008-0921 DRWN:SKANG 2008/04/15 CHKD:ATSEE 2008/04/15 APPR:MLONG 2008/04/15</td><td rowspan="5">DESCRIPTION REV</td><td rowspan="5">QUALITY SYMBOLS =0 =0</td><td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td colspan="2">DIMENSION STYLE</td><td>SCALE</td><td>DESIGN UNITS</td><td colspan="2">THIRD ANGLE PROJECTION</td><td colspan="6" rowspan="2">POWER CONN. RECEPTACLE P-S-P CONFIGURATION VERT. PRESS-FIT,W/G POST  MOLEX INCORPORATED</td></tr><tr><td rowspan="4">mm</td><td rowspan="4">INCH</td><td colspan="2">DRAWN BY</td><td colspan="2">DATE</td><td colspan="2">TITLE</td></tr><tr><td colspan="2">4 PLACES</td><td colspan="2">2002/11/19</td><td colspan="2">CHECKED BY</td><td colspan="2">DATE</td></tr><tr><td colspan="2">2 PLACES</td><td colspan="2">2002/11/21</td><td colspan="2">APPROVED BY</td><td colspan="2">DATE</td></tr><tr><td colspan="2">1 PLACE</td><td colspan="2">2002/11/21</td><td colspan="2">SKTOH</td><td colspan="2">2002/11/21</td></tr><tr><td colspan="2">ANGULAR ± 3 °</td><td colspan="2">MATERIAL NO.</td><td colspan="2">DOCUMENT NO.</td><td colspan="2">SHEET NO.</td></tr><tr><td colspan="2">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="2">SEE TABLE</td><td colspan="2">SIZE</td><td colspan="10">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr></table>																	PDR#S00-1777-00-00 EC NO: S2008-0921 DRWN:SKANG 2008/04/15 CHKD:ATSEE 2008/04/15 APPR:MLONG 2008/04/15	DESCRIPTION REV	QUALITY SYMBOLS  =0  =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		POWER CONN. RECEPTACLE P-S-P CONFIGURATION VERT. PRESS-FIT,W/G POST  MOLEX INCORPORATED						mm	INCH	DRAWN BY		DATE		TITLE		4 PLACES		2002/11/19		CHECKED BY		DATE		2 PLACES		2002/11/21		APPROVED BY		DATE		1 PLACE		2002/11/21		SKTOH		2002/11/21		ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
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tb_frame_A3_P_AM_T Rev. E 2006/04/15	9	8	7	6	5	4	3	2	1																																																																																

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

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