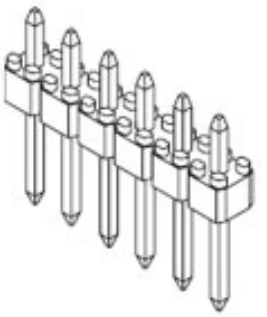
This document was generated on 06/08/2010

# PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** 0901200123
**Status:** Active
**Overview:** cgrid_iii
**Description:** 2.54mm (.100") Pitch C-Grid III™ Header, Single Row, Vertical, 3 Circuits, Tin (Sn) Plating

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



*Series image - Reference only*

## General

| | |
|---|---|
| Product Family | PCB Headers |
| Series | 90120 |
| Application | Wire-to-Board |
| MolexKits | Yes |
| Overview | cgrid_iii |
| Product Name | C-Grid III™ |

## Physical

| | |
|---|---|
| Breakaway | Yes |
| Circuits (Loaded) | 3 |
| Circuits (maximum) | 3 |
| Color - Resin | Black |
| First Mate / Last Break | No |
| Glow-Wire Compliant | No |
| Guide to Mating Part | No |
| Keying to Mating Part | None |
| Lock to Mating Part | None |
| Material - Metal | Brass |
| Material - Plating Mating | Tin |
| Material - Plating Termination | Tin |
| Material - Resin | Polyester |
| Number of Rows | 1 |
| Orientation | Vertical |
| PC Tail Length (in) | 0.114 In |
| PC Tail Length (mm) | 2.90 mm |
| PCB Locator | No |
| PCB Retention | None |
| Packaging Type | Bag |
| Pitch - Mating Interface (in) | 0.100 In |
| Pitch - Mating Interface (mm) | 2.54 mm |
| Plating min: Mating (µin) | 160 |
| Plating min: Mating (µm) | 4.00 |
| Polarized to Mating Part | No |
| Polarized to PCB | No |
| Shrouded | No |
| Stackable | No |
| Temperature Range - Operating | -55°C to +125°C |
| Termination Interface: Style | Through Hole |

## Electrical

| | |
|---|---|
| Current - Maximum per Contact | 3A |
| Voltage - Maximum | 350V |

## Solder Process Data

| | |
|---|---|
| Duration at Max. Process Temperature (seconds) | 5 |

**EU RoHS**
**ELV and RoHS Compliant**
**REACH SVHC**
**Contains SVHC: No**
**Halogen-Free Status**
**Not 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**
90120Series

**Mates With**
90147 C-Grid® PC Board Connector. 90123 C-Grid III™ Modular Crimp Housing

| | |
|---|---|
| Lead-free Process Capability | Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature | 1 |
| Process Temperature max. C | 230 |

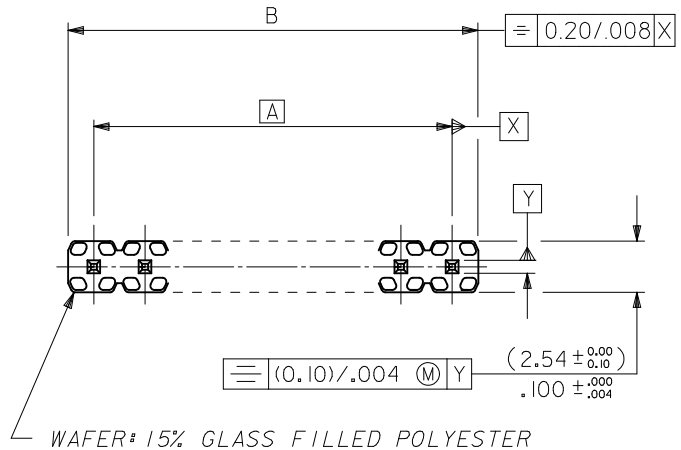
## Material Info

## Reference - Drawing Numbers

| | |
|---|---|
| Sales Drawing | SDA-90120 |

This document was generated on 06/08/2010

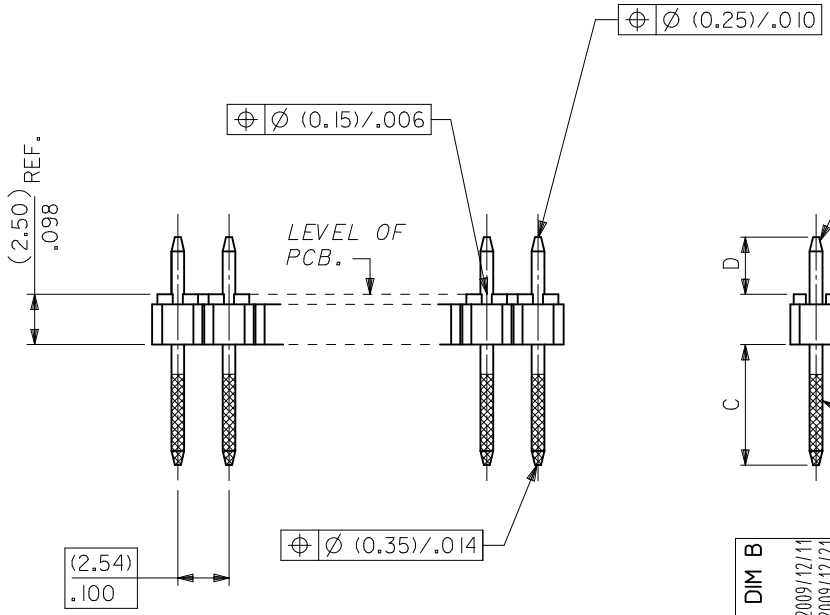
**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

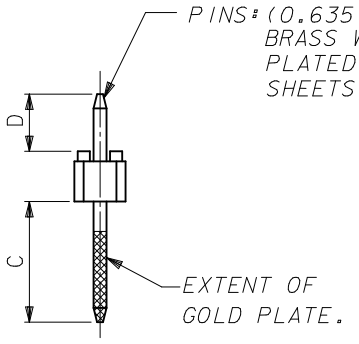


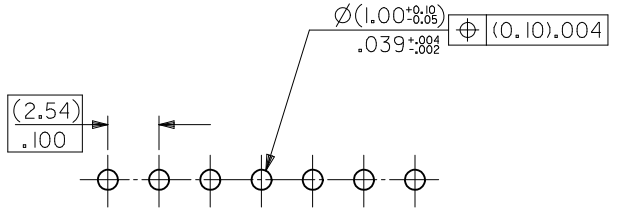

| CKT SIZE | DIM." A" | DIM." B" (+0 -0.45) +0 -.018 | CKT SIZE | DIM." A" | DIM." B" (+0 -0.45) +0 -.018 |
|---|---|---|---|---|---|
| IX 1 | ——— | (2.54) .100 | IX21 | (50.80) 2.000 | (53.34) 2.100 |
| IX 2 | (2.54) .100 | (5.08) .200 | IX22 | (53.34) 2.100 | (55.88) 2.200 |
| IX 3 | (5.08) .200 | (7.62) .300 | IX23 | (55.88) 2.200 | (58.42) 2.300 |
| IX 4 | (7.62) .300 | (10.16) .400 | IX24 | (58.42) 2.300 | (60.96) 2.400 |
| IX 5 | (10.16) .400 | (12.70) .500 | IX25 | (60.96) 2.400 | (63.50) 2.500 |
| IX 6 | (12.70) .500 | (15.24) .600 | IX26 | (63.50) 2.500 | (66.04) 2.600 |
| IX 7 | (15.24) .600 | (17.78) .700 | IX27 | (66.04) 2.600 | (68.58) 2.700 |
| IX 8 | (17.78) .700 | (20.32) .800 | IX28 | (68.58) 2.700 | (71.12) 2.800 |
| IX 9 | (20.32) .800 | (22.86) .900 | IX29 | (71.12) 2.800 | (73.66) 2.900 |
| IX10 | (22.86) .900 | (25.40) 1.000 | IX30 | (73.66) 2.900 | (76.20) 3.000 |
| IX11 | (25.40) 1.000 | (27.94) 1.100 | IX31 | (76.20) 3.000 | (78.74) 3.100 |
| IX12 | (27.94) 1.100 | (30.48) 1.200 | IX32 | (78.74) 3.100 | (81.28) 3.200 |
| IX13 | (30.48) 1.200 | (33.02) 1.300 | IX33 | (81.28) 3.200 | (83.82) 3.300 |
| IX14 | (33.02) 1.300 | (35.56) 1.400 | IX34 | (83.82) 3.300 | (86.36) 3.400 |
| IX15 | (35.56) 1.400 | (38.10) 1.500 | IX35 | (86.36) 3.400 | (88.90) 3.500 |
| IX16 | (38.10) 1.500 | (40.64) 1.600 | IX36 | (88.90) 3.500 | (91.44) 3.600 |
| IX17 | (40.64) 1.600 | (43.18) 1.700 | IX37 | (91.44) 3.600 | (93.98) 3.700 |
| IX18 | (43.18) 1.700 | (45.72) 1.800 | IX38 | (93.98) 3.700 | (96.52) 3.800 |
| IX19 | (45.72) 1.800 | (48.26) 1.900 | IX39 | (96.52) 3.800 | (99.06) 3.900 |
| IX20 | (48.26) 1.900 | (50.80) 2.000 | IX40 | (99.06) 3.900 | (101.60) 4.000 |

NOTES

1. FOR ASSY NUMBERS WITH FINISH OPTIONS AND DIM'S C & D SEE SHEETS 2 TO 6.
2. PRODUCT SPEC: PS-99020-0001
3. RECOMMENDED PCB THICKNESS 1.6mm




RECOMMENDED P.C. BOARD HOLE PATTERN

REV GD&T FOR DIM B
EC NO: S2010-0493 2009/12/11
DRWN:SKANG 2009/12/21
CH'KD:ATSEE 2009/12/21
APPR:MLONG
DESCRIPTION
REV
N1

QUALITY SYMBOLS
FA=0
FC=0
FP=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± --- | ± --- |
| 1 PLACE | ± --- | ± --- |
| ANGULAR ±---° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: JDENNEHY DATE: 2006/01/18
CHECKED BY: DWASZKIEWICZ DATE: 2006/01/18
APPROVED BY: MLONG DATE: 2009/12/21

TITLE: C-GRID III SINGLE ROW STRAIGHT PIN HEADER

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SDA-90120
SHEET NO.: 1 OF 6
SIZE: A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| CIRCUIT SIZE | PLATING TYPE A | | PLATING TYPE E | | PLATING TYPE F | |
|---|---|---|---|---|---|---|
| | PART NO. | CUSTOMER SPECIFIC PART NO. | PART NO. | CUSTOMER SPECIFIC PART NO. | PART NO. | CUSTOMER SPECIFIC PART NO. |
| 1 X 1 | 90120-0121 | 90120-9121 | 90120-0761 | 90120-9761 | 90120-0921 | 90120-9921 |
| 1 X 2 | -0122 | -9122 | -0762 | -9762 | -0922 | -9922 |
| 1 X 3 | -0123 | -9123 | -0763 | -9763 | -0923 | -9923 |
| 1 X 4 | -0124 | -9124 | -0764 | -9764 | -0924 | -9924 |
| 1 X 5 | -0125 | -9125 | -0765 | -9765 | -0925 | -9925 |
| 1 X 6 | -0126 | -9126 | -0766 | -9766 | -0926 | -9926 |
| 1 X 7 | -0127 | -9127 | -0767 | -9767 | -0927 | -9927 |
| 1 X 8 | -0128 | -9128 | -0768 | -9768 | -0928 | -9928 |
| 1 X 9 | -0129 | -9129 | -0769 | -9769 | -0929 | -9929 |
| 1 X 10 | -0130 | -9130 | -0770 | -9770 | -0930 | -9930 |
| 1 X 11 | -0131 | -9131 | -0771 | -9771 | -0931 | -9931 |
| 1 X 12 | -0132 | -9132 | -0772 | -9772 | -0932 | -9932 |
| 1 X 13 | -0133 | -9133 | -0773 | -9773 | -0933 | -9933 |
| 1 X 14 | -0134 | -9134 | -0774 | -9774 | -0934 | -9934 |
| 1 X 15 | -0135 | -9135 | -0775 | -9775 | -0935 | -9935 |
| 1 X 16 | -0136 | -9136 | -0776 | -9776 | -0936 | -9936 |
| 1 X 17 | -0137 | -9137 | -0777 | -9777 | -0937 | -9937 |
| 1 X 18 | -0138 | -9138 | -0778 | -9778 | -0938 | -9938 |
| 1 X 19 | -0139 | -9139 | -0779 | -9779 | -0939 | -9939 |
| 1 X 20 | -0140 | -9140 | -0780 | -9780 | -0940 | -9940 |
| 1 X 21 | -0141 | -9141 | -0781 | -9781 | -0941 | -9941 |
| 1 X 22 | -0142 | -9142 | -0782 | -9782 | -0942 | -9942 |
| 1 X 23 | -0143 | -9143 | -0783 | -9783 | -0943 | -9943 |
| 1 X 24 | -0144 | -9144 | -0784 | -9784 | -0944 | -9944 |
| 1 X 25 | -0145 | -9145 | -0785 | -9785 | -0945 | -9945 |
| 1 X 26 | -0146 | -9146 | -0786 | -9786 | -0946 | -9946 |
| 1 X 27 | -0147 | -9147 | -0787 | -9787 | -0947 | -9947 |
| 1 X 28 | -0148 | -9148 | -0788 | -9788 | -0948 | -9948 |
| 1 X 29 | -0149 | -9149 | -0789 | -9789 | -0949 | -9949 |
| 1 X 30 | -0150 | -9150 | -0790 | -9790 | -0950 | -9950 |
| 1 X 31 | -0151 | -9151 | -0791 | -9791 | -0951 | -9951 |
| 1 X 32 | -0152 | -9152 | -0792 | -9792 | -0952 | -9952 |
| 1 X 33 | -0153 | -9153 | -0793 | -9793 | -0953 | -9953 |
| 1 X 34 | -0154 | -9154 | -0794 | -9794 | -0954 | -9954 |
| 1 X 35 | -0155 | -9155 | -0795 | -9795 | -0955 | -9955 |
| 1 X 36 | -0156 | -9156 | -0796 | -9796 | -0956 | -9956 |
| 1 X 37 | -0157 | -9157 | -0797 | -9797 | -0957 | -9957 |
| 1 X 38 | -0158 | -9158 | -0798 | -9798 | -0958 | -9958 |
| 1 X 39 | -0159 | -9159 | -0799 | -9799 | -0959 | -9959 |
| 1 X 40 | 90120-0160 | 90120-9160 | 90120-0800 | 90120-9800 | 90120-0960 | 90120-9960 |

DIM C $^{(\pm 0.20)}_{\pm .008}$ (6.75) .266

DIM D $^{(\pm 0.20\ -0.30)}_{+.008\ -.012}$ (2.90) .114

NOTES:
FOR PLATING VARIATIONS SEE ENG.STD. SDES-99000-0003.

STANDARD PRODUCTS

REV GD&T FOR DIM B
EC NO: S2010-0493 2009/12/11
DRWN:SKANG 2009/12/21
CH'KD:ATSEE
APPR:MLONG 2009/12/21
DESCRIPTION
REV
N1

QUALITY SYMBOLS
FA=0
FC=0
FP=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± --- | ± --- |
| 1 PLACE | ± --- | ± --- |
| ANGULAR ±---° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: JDENNEHY DATE: 2006/01/18
CHECKED BY: DWASZKIEWICZ DATE: 2006/01/18
APPROVED BY: MLONG DATE: 2009/12/21

TITLE: C-GRID III SINGLE ROW STRAIGHT PIN HEADER

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SDA-90120
SHEET NO.: 2 OF 6
SIZE: A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| CIRCUIT SIZE | PLATING TYPE A PART NO. | PLATING TYPE E PART NO. | PLATING TYPE F PART NO. |
|---|---|---|---|
| 1 X 1 | 90120-0041 | 90120-0681 | 90120-0841 |
| 1 X 2 | -0042 | -0682 | -0842 |
| 1 X 3 | -0043 | -0683 | -0843 |
| 1 X 4 | -0044 | -0684 | -0844 |
| 1 X 5 | -0045 | -0685 | -0845 |
| 1 X 6 | -0046 | -0686 | -0846 |
| 1 X 7 | -0047 | -0687 | -0847 |
| 1 X 8 | -0048 | -0688 | -0848 |
| 1 X 9 | -0049 | -0689 | -0849 |
| 1 X 10 | -0050 | -0690 | -0850 |
| 1 X 11 | -0051 | -0691 | -0851 |
| 1 X 12 | -0052 | -0692 | -0852 |
| 1 X 13 | -0053 | -0693 | -0853 |
| 1 X 14 | -0054 | -0694 | -0854 |
| 1 X 15 | -0055 | -0695 | -0855 |
| 1 X 16 | -0056 | -0696 | -0856 |
| 1 X 17 | -0057 | -0697 | -0857 |
| 1 X 18 | -0058 | -0698 | -0858 |
| 1 X 19 | -0059 | -0699 | -0859 |
| 1 X 20 | -0060 | -0700 | -0860 |
| 1 X 21 | -0061 | -0701 | -0861 |
| 1 X 22 | -0062 | -0702 | -0862 |
| 1 X 23 | -0063 | -0703 | -0863 |
| 1 X 24 | -0064 | -0704 | -0864 |
| 1 X 25 | -0065 | -0705 | -0865 |
| 1 X 26 | -0066 | -0706 | -0866 |
| 1 X 27 | -0067 | -0707 | -0867 |
| 1 X 28 | -0068 | -0708 | -0868 |
| 1 X 29 | -0069 | -0709 | -0869 |
| 1 X 30 | -0070 | -0710 | -0870 |
| 1 X 31 | -0071 | -0711 | -0871 |
| 1 X 32 | -0072 | -0712 | -0872 |
| 1 X 33 | -0073 | -0713 | -0873 |
| 1 X 34 | -0074 | -0714 | -0874 |
| 1 X 35 | -0075 | -0715 | -0875 |
| 1 X 36 | -0076 | -0716 | -0876 |
| 1 X 37 | -0077 | -0717 | -0877 |
| 1 X 38 | -0078 | -0718 | -0878 |
| 1 X 39 | -0079 | -0719 | -0879 |
| 1 X 40 | 90120-0080 | 90120-0720 | 90120-0880 |

DIM C $^{(\pm 0.20)}_{\pm .008}$ (5.75) .226

DIM D $^{(\pm 0.20)}_{-0.30}$ $^{+.008}_{-.012}$ (2.90) .114

| CIRCUIT SIZE | PLATING TYPE A PART NO. | PLATING TYPE E PART NO. | PLATING TYPE F PART NO. |
|---|---|---|---|
| 1 X 1 | 90120-0081 | 90120-0721 | 90120-0881 |
| 1 X 2 | -0082 | -0722 | -0882 |
| 1 X 3 | -0083 | -0723 | -0883 |
| 1 X 4 | -0084 | -0724 | -0884 |
| 1 X 5 | -0085 | -0725 | -0885 |
| 1 X 6 | -0086 | -0726 | -0886 |
| 1 X 7 | -0087 | -0727 | -0887 |
| 1 X 8 | -0088 | -0728 | -0888 |
| 1 X 9 | -0089 | -0729 | -0889 |
| 1 X 10 | -0090 | -0730 | -0890 |
| 1 X 11 | -0091 | -0731 | -0891 |
| 1 X 12 | -0092 | -0732 | -0892 |
| 1 X 13 | -0093 | -0733 | -0893 |
| 1 X 14 | -0094 | -0734 | -0894 |
| 1 X 15 | -0095 | -0735 | -0895 |
| 1 X 16 | -0096 | -0736 | -0896 |
| 1 X 17 | -0097 | -0737 | -0897 |
| 1 X 18 | -0098 | -0738 | -0898 |
| 1 X 19 | -0099 | -0739 | -0899 |
| 1 X 20 | -0100 | -0740 | -0900 |
| 1 X 21 | -0101 | -0741 | -0901 |
| 1 X 22 | -0102 | -0742 | -0902 |
| 1 X 23 | -0103 | -0743 | -0903 |
| 1 X 24 | -0104 | -0744 | -0904 |
| 1 X 25 | -0105 | -0745 | -0905 |
| 1 X 26 | -0106 | -0746 | -0906 |
| 1 X 27 | -0107 | -0747 | -0907 |
| 1 X 28 | -0108 | -0748 | -0908 |
| 1 X 29 | -0109 | -0749 | -0909 |
| 1 X 30 | -0110 | -0750 | -0910 |
| 1 X 31 | -0111 | -0751 | -0911 |
| 1 X 32 | -0112 | -0752 | -0912 |
| 1 X 33 | -0113 | -0753 | -0913 |
| 1 X 34 | -0114 | -0754 | -0914 |
| 1 X 35 | -0115 | -0755 | -0915 |
| 1 X 36 | -0116 | -0756 | -0916 |
| 1 X 37 | -0117 | -0757 | -0917 |
| 1 X 38 | -0118 | -0758 | -0918 |
| 1 X 39 | -0119 | -0759 | -0919 |
| 1 X 40 | 90120-0120 | 90120-0760 | 90120-0920 |

DIM C $^{(\pm 0.20)}_{\pm .008}$ (5.75) .226

DIM D $^{(\pm 0.25)}_{\pm .010}$ (4.50) .177

NOTES:
FOR PLATING VARIATIONS SEE ENG.STD. SDES-99000-0003.

**NON-STANDARD PRODUCTS**

REV GD&T FOR DIM B
EC NO: S2010-0493 2009/12/11
DRWN:SKANG 2009/12/21
CH'KD:ATSEE 2009/12/21
APPR:MLONG 2009/12/21
DESCRIPTION
REV
N1

QUALITY SYMBOLS
FA=0
FC=0
FP=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± --- | ± --- |
| 1 PLACE | ± --- | ± --- |
| ANGULAR ±---° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: JDENNEHY DATE: 2006/01/18
CHECKED BY: DWASZKIEWICZ DATE: 2006/01/18
APPROVED BY: MLONG DATE: 2009/12/21

TITLE: C-GRID III SINGLE ROW STRAIGHT PIN HEADER

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SDA-90120
SHEET NO.: 3 OF 6
SIZE: A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| CIRCUIT SIZE | PLATING TYPE A PART NO. | PLATING TYPE E PART NO. | PLATING TYPE F PART NO. |
|---|---|---|---|
| 1 X 1 | 90120-0161 | 90120-0801 | 90120-0961 |
| 1 X 2 | -0162 | -0802 | -0962 |
| 1 X 3 | -0163 | -0803 | -0963 |
| 1 X 4 | -0164 | -0804 | -0964 |
| 1 X 5 | -0165 | -0805 | -0965 |
| 1 X 6 | -0166 | -0806 | -0966 |
| 1 X 7 | -0167 | -0807 | -0967 |
| 1 X 8 | -0168 | -0808 | -0968 |
| 1 X 9 | -0169 | -0809 | -0969 |
| 1 X 10 | -0170 | -0810 | -0970 |
| 1 X 11 | -0171 | -0811 | -0971 |
| 1 X 12 | -0172 | -0812 | -0972 |
| 1 X 13 | -0173 | -0813 | -0973 |
| 1 X 14 | -0174 | -0814 | -0974 |
| 1 X 15 | -0175 | -0815 | -0975 |
| 1 X 16 | -0176 | -0816 | -0976 |
| 1 X 17 | -0177 | -0817 | -0977 |
| 1 X 18 | -0178 | -0818 | -0978 |
| 1 X 19 | -0179 | -0819 | -0979 |
| 1 X 20 | -0180 | -0820 | -0980 |
| 1 X 21 | -0181 | -0821 | -0981 |
| 1 X 22 | -0182 | -0822 | -0982 |
| 1 X 23 | -0183 | -0823 | -0983 |
| 1 X 24 | -0184 | -0824 | -0984 |
| 1 X 25 | -0185 | -0825 | -0985 |
| 1 X 26 | -0186 | -0826 | -0986 |
| 1 X 27 | -0187 | -0827 | -0987 |
| 1 X 28 | -0188 | -0828 | -0988 |
| 1 X 29 | -0189 | -0829 | -0989 |
| 1 X 30 | -0190 | -0830 | -0990 |
| 1 X 31 | -0191 | -0831 | -0991 |
| 1 X 32 | -0192 | -0832 | -0992 |
| 1 X 33 | -0193 | -0833 | -0993 |
| 1 X 34 | -0194 | -0834 | -0994 |
| 1 X 35 | -0195 | -0835 | -0995 |
| 1 X 36 | -0196 | -0836 | -0996 |
| 1 X 37 | -0197 | -0837 | -0997 |
| 1 X 38 | -0198 | -0838 | -0998 |
| 1 X 39 | -0199 | -0839 | -0999 |
| 1 X 40 | 90120-0200 | 90120-0840 | 90120-1000 |

DIM C (±0.20) ±.008 (6.75) .266

DIM D (±0.25) ±.010 (4.50) .177

NOTES:
FOR PLATING VARIATIONS SEE ENG.STD. SDES-99000-0003.

NON-STANDARD PRODUCTS

REV GD&T FOR DIM B
EC NO: S2010-0493 2009/12/11
DRWN:SKANG 2009/12/21
CH'KD:ATSEE 2009/12/21
APPR:MLONG
DESCRIPTION
REV
N1

QUALITY SYMBOLS
FA=0
FC=0
FP=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± --- | ± --- |
| 1 PLACE | ± --- | ± --- |
| ANGULAR ±---° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: JDENNEHY DATE: 2006/01/18
CHECKED BY: DWASZKIEWICZ DATE: 2006/01/18
APPROVED BY: MLONG DATE: 2009/12/21

TITLE: C-GRID III SINGLE ROW STRAIGHT PIN HEADER

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SDA-90120
SHEET NO.: 4 OF 6
SIZE: A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| CIRCUIT SIZE | PLATING TYPE B PART NO. | PLATING TYPE C PART NO. | PLATING TYPE D PART NO. | PLATING TYPE G PART NO. |
|---|---|---|---|---|
| 1 X 1 | 90120-0281 | 90120-0441 | 90120-0601 | 90120-1081 |
| 1 X 2 | -0282 | -0442 | -0602 | -1082 |
| 1 X 3 | -0283 | -0443 | -0603 | -1083 |
| 1 X 4 | -0284 | -0444 | -0604 | -1084 |
| 1 X 5 | -0285 | -0445 | -0605 | -1085 |
| 1 X 6 | -0286 | -0446 | -0606 | -1086 |
| 1 X 7 | -0287 | -0447 | -0607 | -1087 |
| 1 X 8 | -0288 | -0448 | -0608 | -1088 |
| 1 X 9 | -0289 | -0449 | -0609 | -1089 |
| 1 X 10 | -0290 | -0450 | -0610 | -1090 |
| 1 X 11 | -0291 | -0451 | -0611 | -1091 |
| 1 X 12 | -0292 | -0452 | -0612 | -1092 |
| 1 X 13 | -0293 | -0453 | -0613 | -1093 |
| 1 X 14 | -0294 | -0454 | -0614 | -1094 |
| 1 X 15 | -0295 | -0455 | -0615 | -1095 |
| 1 X 16 | -0296 | -0456 | -0616 | -1096 |
| 1 X 17 | -0297 | -0457 | -0617 | -1097 |
| 1 X 18 | -0298 | -0458 | -0618 | -1098 |
| 1 X 19 | -0299 | -0459 | -0619 | -1099 |
| 1 X 20 | -0300 | -0460 | -0620 | -1100 |
| 1 X 21 | -0301 | -0461 | -0621 | -1101 |
| 1 X 22 | -0302 | -0462 | -0622 | -1102 |
| 1 X 23 | -0303 | -0463 | -0623 | -1103 |
| 1 X 24 | -0304 | -0464 | -0624 | -1104 |
| 1 X 25 | -0305 | -0465 | -0625 | -1105 |
| 1 X 26 | -0306 | -0466 | -0626 | -1106 |
| 1 X 27 | -0307 | -0467 | -0627 | -1107 |
| 1 X 28 | -0308 | -0468 | -0628 | -1108 |
| 1 X 29 | -0309 | -0469 | -0629 | -1109 |
| 1 X 30 | -0310 | -0470 | -0630 | -1110 |
| 1 X 31 | -0311 | -0471 | -0631 | -1111 |
| 1 X 32 | -0312 | -0472 | -0632 | -1112 |
| 1 X 33 | -0313 | -0473 | -0633 | -1113 |
| 1 X 34 | -0314 | -0474 | -0634 | -1114 |
| 1 X 35 | -0315 | -0475 | -0635 | -1115 |
| 1 X 36 | -0316 | -0476 | -0636 | -1116 |
| 1 X 37 | -0317 | -0477 | -0637 | -1117 |
| 1 X 38 | -0318 | -0478 | -0638 | -1118 |
| 1 X 39 | -0319 | -0479 | -0639 | -1119 |
| 1 X 40 | 90120-0320 | 90120-0480 | 90120-0640 | 90120-1120 |

DIM C $(\pm 0.20) \pm .008$ (6.75) .266

DIM D $(\pm 0.20 / -0.30) \pm .008 / -.012$ (2.90) .114

| CIRCUIT SIZE | PLATING TYPE G PART NO. | PLATING TYPE B PART NO. | PLATING TYPE C PART NO. | PLATING TYPE D PART NO. |
|---|---|---|---|---|
| 1 X 1 | 90120-1001 | 90120-0201 | 90120-0361 | 90120-0521 |
| 1 X 2 | -1002 | -0202 | -0362 | -0522 |
| 1 X 3 | -1003 | -0203 | -0363 | -0523 |
| 1 X 4 | -1004 | -0204 | -0364 | -0524 |
| 1 X 5 | -1005 | -0205 | -0365 | -0525 |
| 1 X 6 | -1006 | -0206 | -0366 | -0526 |
| 1 X 7 | -1007 | -0207 | -0367 | -0527 |
| 1 X 8 | -1008 | -0208 | -0368 | -0528 |
| 1 X 9 | -1009 | -0209 | -0369 | -0529 |
| 1 X 10 | -1010 | -0210 | -0370 | -0530 |
| 1 X 11 | -1011 | -0211 | -0371 | -0531 |
| 1 X 12 | -1012 | -0212 | -0372 | -0532 |
| 1 X 13 | -1013 | -0213 | -0373 | -0533 |
| 1 X 14 | -1014 | -0214 | -0374 | -0534 |
| 1 X 15 | -1015 | -0215 | -0375 | -0535 |
| 1 X 16 | -1016 | -0216 | -0376 | -0536 |
| 1 X 17 | -1017 | -0217 | -0377 | -0537 |
| 1 X 18 | -1018 | -0218 | -0378 | -0538 |
| 1 X 19 | -1019 | -0219 | -0379 | -0539 |
| 1 X 20 | -1020 | -0220 | -0380 | -0540 |
| 1 X 21 | -1021 | -0221 | -0381 | -0541 |
| 1 X 22 | -1022 | -0222 | -0382 | -0542 |
| 1 X 23 | -1023 | -0223 | -0383 | -0543 |
| 1 X 24 | -1024 | -0224 | -0384 | -0544 |
| 1 X 25 | -1025 | -0225 | -0385 | -0545 |
| 1 X 26 | -1026 | -0226 | -0386 | -0546 |
| 1 X 27 | -1027 | -0227 | -0387 | -0547 |
| 1 X 28 | -1028 | -0228 | -0388 | -0548 |
| 1 X 29 | -1029 | -0229 | -0389 | -0549 |
| 1 X 30 | -1030 | -0230 | -0390 | -0550 |
| 1 X 31 | -1031 | -0231 | -0391 | -0551 |
| 1 X 32 | -1032 | -0232 | -0392 | -0552 |
| 1 X 33 | -1033 | -0233 | -0393 | -0553 |
| 1 X 34 | -1034 | -0234 | -0394 | -0554 |
| 1 X 35 | -1035 | -0235 | -0395 | -0555 |
| 1 X 36 | -1036 | -0236 | -0396 | -0556 |
| 1 X 37 | -1037 | -0237 | -0397 | -0557 |
| 1 X 38 | -1038 | -0238 | -0398 | -0558 |
| 1 X 39 | -1039 | -0239 | -0399 | -0559 |
| 1 X 40 | 90120-1040 | 90120-0240 | 90120-0400 | 90120-0560 |

DIM C $(\pm 0.20) \pm .008$ (5.75) .226

DIM D $(\pm 0.20 / -0.30) \pm .008 / -.012$ (2.90) .114

NOTES:
FOR PLATING VARIATIONS SEE ENG.STD. SDES-99000-0003.

**NON-STANDARD PRODUCTS**
**NOT FOR GENERAL RELEASE**

REV GD&T FOR DIM B
EC NO: S2010-0493 2009/12/11
DRWN:SKANG 2009/12/21
CH'KD:ATSEE 2009/12/21
APPR:MLONG 2009/12/21
DESCRIPTION
REV
N1

QUALITY SYMBOLS
FA=0
FC=0
FB=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± --- | ± --- |
| 1 PLACE | ± --- | ± --- |
| ANGULAR ±---° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: JDENNEHY DATE: 2006/01/18
CHECKED BY: DWASZKIEWICZ DATE: 2006/01/18
APPROVED BY: MLONG DATE: 2009/12/21

TITLE
C-GRID III
SINGLE ROW STRAIGHT
PIN HEADER

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SDA-90120
SHEET NO.: 5 OF 6
SIZE: A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| CIRCUIT SIZE | PLATING TYPE B PART NO. | PLATING TYPE C PART NO. | PLATING TYPE D PART NO. | PLATING TYPE G PART NO. |
|---|---|---|---|---|
| 1 X 1 | 90120-0241 | 90120-0401 | 90120-0561 | 90120-1041 |
| 1 X 2 | -0242 | -0402 | -0562 | -1042 |
| 1 X 3 | -0243 | -0403 | -0563 | -1043 |
| 1 X 4 | -0244 | -0404 | -0564 | -1044 |
| 1 X 5 | -0245 | -0405 | -0565 | -1045 |
| 1 X 6 | -0246 | -0406 | -0566 | -1046 |
| 1 X 7 | -0247 | -0407 | -0567 | -1047 |
| 1 X 8 | -0248 | -0408 | -0568 | -1048 |
| 1 X 9 | -0249 | -0409 | -0569 | -1049 |
| 1 X 10 | -0250 | -0410 | -0570 | -1050 |
| 1 X 11 | -0251 | -0411 | -0571 | -1051 |
| 1 X 12 | -0252 | -0412 | -0572 | -1052 |
| 1 X 13 | -0253 | -0413 | -0573 | -1053 |
| 1 X 14 | -0254 | -0414 | -0574 | -1054 |
| 1 X 15 | -0255 | -0415 | -0575 | -1055 |
| 1 X 16 | -0256 | -0416 | -0576 | -1056 |
| 1 X 17 | -0257 | -0417 | -0577 | -1057 |
| 1 X 18 | -0258 | -0418 | -0578 | -1058 |
| 1 X 19 | -0259 | -0419 | -0579 | -1059 |
| 1 X 20 | -0260 | -0420 | -0580 | -1060 |
| 1 X 21 | -0261 | -0421 | -0581 | -1061 |
| 1 X 22 | -0262 | -0422 | -0582 | -1062 |
| 1 X 23 | -0263 | -0423 | -0583 | -1063 |
| 1 X 24 | -0264 | -0424 | -0584 | -1064 |
| 1 X 25 | -0265 | -0425 | -0585 | -1065 |
| 1 X 26 | -0266 | -0426 | -0586 | -1066 |
| 1 X 27 | -0267 | -0427 | -0587 | -1067 |
| 1 X 28 | -0268 | -0428 | -0588 | -1068 |
| 1 X 29 | -0269 | -0429 | -0589 | -1069 |
| 1 X 30 | -0270 | -0430 | -0590 | -1070 |
| 1 X 31 | -0271 | -0431 | -0591 | -1071 |
| 1 X 32 | -0272 | -0432 | -0592 | -1072 |
| 1 X 33 | -0273 | -0433 | -0593 | -1073 |
| 1 X 34 | -0274 | -0434 | -0594 | -1074 |
| 1 X 35 | -0275 | -0435 | -0595 | -1075 |
| 1 X 36 | -0276 | -0436 | -0596 | -1076 |
| 1 X 37 | -0277 | -0437 | -0597 | -1077 |
| 1 X 38 | -0278 | -0438 | -0598 | -1078 |
| 1 X 39 | -0279 | -0439 | -0599 | -1079 |
| 1 X 40 | 90120-0280 | 90120-0440 | 90120-0600 | 90120-1080 |

DIM C (±0.20) ±.008 (5.75) .226

DIM D (±0.25) ±.010 (4.50) .177

| CIRCUIT SIZE | PLATING TYPE B PART NO. | PLATING TYPE C PART NO. | PLATING TYPE D PART NO. | PLATING TYPE G PART NO. |
|---|---|---|---|---|
| 1 X 1 | 90120-0321 | 90120-0481 | 90120-0641 | 90120-1121 |
| 1 X 2 | -0322 | -0482 | -0642 | -1122 |
| 1 X 3 | -0323 | -0483 | -0643 | -1123 |
| 1 X 4 | -0324 | -0484 | -0644 | -1124 |
| 1 X 5 | -0325 | -0485 | -0645 | -1125 |
| 1 X 6 | -0326 | -0486 | -0646 | -1126 |
| 1 X 7 | -0327 | -0487 | -0647 | -1127 |
| 1 X 8 | -0328 | -0488 | -0648 | -1128 |
| 1 X 9 | -0329 | -0489 | -0649 | -1129 |
| 1 X 10 | -0330 | -0490 | -0650 | -1130 |
| 1 X 11 | -0331 | -0491 | -0651 | -1131 |
| 1 X 12 | -0332 | -0492 | -0652 | -1132 |
| 1 X 13 | -0333 | -0493 | -0653 | -1133 |
| 1 X 14 | -0334 | -0494 | -0654 | -1134 |
| 1 X 15 | -0335 | -0495 | -0655 | -1135 |
| 1 X 16 | -0336 | -0496 | -0656 | -1136 |
| 1 X 17 | -0337 | -0497 | -0657 | -1137 |
| 1 X 18 | -0338 | -0498 | -0658 | -1138 |
| 1 X 19 | -0339 | -0499 | -0659 | -1139 |
| 1 X 20 | -0340 | -0500 | -0660 | -1140 |
| 1 X 21 | -0341 | -0501 | -0661 | -1141 |
| 1 X 22 | -0342 | -0502 | -0662 | -1142 |
| 1 X 23 | -0343 | -0503 | -0663 | -1143 |
| 1 X 24 | -0344 | -0504 | -0664 | -1144 |
| 1 X 25 | -0345 | -0505 | -0665 | -1145 |
| 1 X 26 | -0346 | -0506 | -0666 | -1146 |
| 1 X 27 | -0347 | -0507 | -0667 | -1147 |
| 1 X 28 | -0348 | -0508 | -0668 | -1148 |
| 1 X 29 | -0349 | -0509 | -0669 | -1149 |
| 1 X 30 | -0350 | -0510 | -0670 | -1150 |
| 1 X 31 | -0351 | -0511 | -0671 | -1151 |
| 1 X 32 | -0352 | -0512 | -0672 | -1152 |
| 1 X 33 | -0353 | -0513 | -0673 | -1153 |
| 1 X 34 | -0354 | -0514 | -0674 | -1154 |
| 1 X 35 | -0355 | -0515 | -0675 | -1155 |
| 1 X 36 | -0356 | -0516 | -0676 | -1156 |
| 1 X 37 | -0357 | -0517 | -0677 | -1157 |
| 1 X 38 | -0358 | -0518 | -0678 | -1158 |
| 1 X 39 | -0359 | -0519 | -0679 | -1159 |
| 1 X 40 | 90120-0360 | 90120-0520 | 90120-0680 | 90120-1160 |

DIM C (±0.20) ±.008 (6.75) .266

DIM D (±0.25) ±.010 (4.50) .177

NOTES:
FOR PLATING VARIATIONS SEE ENG.STD. SDES-99000-0003.

**NON-STANDARD PRODUCTS**
**NOT FOR GENERAL RELEASE**

REV GD&T FOR DIM B
EC NO: S2010-0493 2009/12/11
DRWN:SKANG 2009/12/21
CH'KD:ATSEE
APPR:MLONG 2009/12/21
DESCRIPTION
REV
N1

QUALITY SYMBOLS
FA=0
FC=0
FP=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± --- | ± --- |
| 1 PLACE | ± --- | ± --- |
| ANGULAR ±---° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: JDENNEHY DATE: 2006/01/18
CHECKED BY: DWASZKIEWICZ DATE: 2006/01/18
APPROVED BY: MLONG DATE: 2009/12/21

TITLE: C-GRID III SINGLE ROW STRAIGHT PIN HEADER

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SDA-90120
SHEET NO.: 6 OF 6
SIZE: A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| CIRCUIT SIZE | PLATING TYPE A | | PLATING TYPE E | | PLATING TYPE F | |
|---|---|---|---|---|---|---|
| | PART NO. | CUSTOMER SPECIFIC PART NO. | PART NO. | CUSTOMER SPECIFIC PART NO. | PART NO. | CUSTOMER SPECIFIC PART NO. |
| 1 X 1 | 90120-0121 | 90120-9121 | 90120-0761 | 90120-9761 | 90120-0921 | 90120-9921 |
| 1 X 2 | -0122 | -9122 | -0762 | -9762 | -0922 | -9922 |
| 1 X 3 | -0123 | -9123 | -0763 | -9763 | -0923 | -9923 |
| 1 X 4 | -0124 | -9124 | -0764 | -9764 | -0924 | -9924 |
| 1 X 5 | -0125 | -9125 | -0765 | -9765 | -0925 | -9925 |
| 1 X 6 | -0126 | -9126 | -0766 | -9766 | -0926 | -9926 |
| 1 X 7 | -0127 | -9127 | -0767 | -9767 | -0927 | -9927 |
| 1 X 8 | -0128 | -9128 | -0768 | -9768 | -0928 | -9928 |
| 1 X 9 | -0129 | -9129 | -0769 | -9769 | -0929 | -9929 |
| 1 X 10 | -0130 | -9130 | -0770 | -9770 | -0930 | -9930 |
| 1 X 11 | -0131 | -9131 | -0771 | -9771 | -0931 | -9931 |
| 1 X 12 | -0132 | -9132 | -0772 | -9772 | -0932 | -9932 |
| 1 X 13 | -0133 | -9133 | -0773 | -9773 | -0933 | -9933 |
| 1 X 14 | -0134 | -9134 | -0774 | -9774 | -0934 | -9934 |
| 1 X 15 | -0135 | -9135 | -0775 | -9775 | -0935 | -9935 |
| 1 X 16 | -0136 | -9136 | -0776 | -9776 | -0936 | -9936 |
| 1 X 17 | -0137 | -9137 | -0777 | -9777 | -0937 | -9937 |
| 1 X 18 | -0138 | -9138 | -0778 | -9778 | -0938 | -9938 |
| 1 X 19 | -0139 | -9139 | -0779 | -9779 | -0939 | -9939 |
| 1 X 20 | -0140 | -9140 | -0780 | -9780 | -0940 | -9940 |
| 1 X 21 | -0141 | -9141 | -0781 | -9781 | -0941 | -9941 |
| 1 X 22 | -0142 | -9142 | -0782 | -9782 | -0942 | -9942 |
| 1 X 23 | -0143 | -9143 | -0783 | -9783 | -0943 | -9943 |
| 1 X 24 | -0144 | -9144 | -0784 | -9784 | -0944 | -9944 |
| 1 X 25 | -0145 | -9145 | -0785 | -9785 | -0945 | -9945 |
| 1 X 26 | -0146 | -9146 | -0786 | -9786 | -0946 | -9946 |
| 1 X 27 | -0147 | -9147 | -0787 | -9787 | -0947 | -9947 |
| 1 X 28 | -0148 | -9148 | -0788 | -9788 | -0948 | -9948 |
| 1 X 29 | -0149 | -9149 | -0789 | -9789 | -0949 | -9949 |
| 1 X 30 | -0150 | -9150 | -0790 | -9790 | -0950 | -9950 |
| 1 X 31 | -0151 | -9151 | -0791 | -9791 | -0951 | -9951 |
| 1 X 32 | -0152 | -9152 | -0792 | -9792 | -0952 | -9952 |
| 1 X 33 | -0153 | -9153 | -0793 | -9793 | -0953 | -9953 |
| 1 X 34 | -0154 | -9154 | -0794 | -9794 | -0954 | -9954 |
| 1 X 35 | -0155 | -9155 | -0795 | -9795 | -0955 | -9955 |
| 1 X 36 | -0156 | -9156 | -0796 | -9796 | -0956 | -9956 |
| 1 X 37 | -0157 | -9157 | -0797 | -9797 | -0957 | -9957 |
| 1 X 38 | -0158 | -9158 | -0798 | -9798 | -0958 | -9958 |
| 1 X 39 | -0159 | -9159 | -0799 | -9799 | -0959 | -9959 |
| 1 X 40 | 90120-0160 | 90120-9160 | 90120-0800 | 90120-9800 | 90120-0960 | 90120-9960 |

DIM C $(\pm 0.20)$ $\pm .008$ (6.75) .266

DIM D $(\pm 0.20 / -0.30)$ $+.008 / -.012$ (2.90) .114

NOTES:
FOR PLATING VARIATIONS SEE ENG.STD. SDES-99000-0003.

**STANDARD PRODUCTS**

PART NO'S ADDED
EC NO: E2006-0667 2006/01/23
DRWN: JDENNEHY 2006/01/23
CHKD: DWASZKIEWICZ 2006/01/23
APPR: JDENNEHY 2006/02/07
REV K DESCRIPTION

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± --- | ± --- |
| 1 PLACE | ± --- | ± --- |
| ANGULAR ±---° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JDENNEHY DATE: 2006/01/18
CHECKED BY: DWASZKIEWICZ DATE: 2006/01/18
APPROVED BY: JDENNEHY DATE: 2006/01/18
MATERIAL NO.: SEE CHART

TITLE: C-GRID III SINGLE ROW STRAIGHT PIN HEADER

MOLEX INCORPORATED

DOCUMENT NO.: SDA-90120
SHEET NO.: 2 OF 6

SIZE A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION