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ELECTRONICS

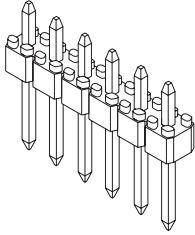
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Jameco Part Number 1303652

# 2.54mm (.100") Pitch C-Grid III™ Header

## 90120 Single Row Vertical



### Features and Benefits

- Sizes 2 to 40 circuits
- Easy breakaway to smaller sizes
- Contact and plating orientation according to DIN 41651
- North/south contact orientation avoids overstress
- High pin retention
- High mechanical stability after soldering

### Reference Information

Product Specification: PS-99020-0001  
Packaging: Bag  
Mates With: C-Grid III Housing and Connectors  
Designed In: Inches

### Electrical

Voltage: 350V  
Current: 3.0A  
Contact Resistance: 20 milliohms max.  
Insulation Resistance: 5000 Megohms min.

### Mechanical

Contact Retention to Housing: 20N (2.0kgf) min.  
Mating Force: 1N max. Gold and 3N max. Tin  
Unmating Force: 0.2N min. Gold and 0.2N min. Tin  
Normal Force: 1N

### Physical

Housing: Black glass-filled polyester, UL 94V-0  
Contact: Copper Alloy, 0.64mm (.025") square pins  
Plating: See Table  
Operating Temperature: -55 to +125°C

Plating A: 4 $\mu$ m (160 $\mu$ in) Tin over Nickel  
Plating E: 0.38 $\mu$ m (15 $\mu$ in) selective Gold over Nickel and 4 $\mu$ m (160 $\mu$ in) Tin over Nickel  
Plating F: 0.76 $\mu$ m (30 $\mu$ in) selective Gold over Nickel and 4 $\mu$ m (160 $\mu$ in) Tin over Nickel

### Not For Use With Molex SL™ Components

Circuits	Order No.			Lead-free
	Plating A	Plating E	Plating F	
3	<a href="#">90120-0123</a>	<a href="#">90120-0763</a>	<a href="#">90120-0923</a>	Yes
4	<a href="#">90120-0124</a>	<a href="#">90120-0764</a>	<a href="#">90120-0924</a>	
5	<a href="#">90120-0125</a>	<a href="#">90120-0765</a>	<a href="#">90120-0925</a>	
6	<a href="#">90120-0126</a>	<a href="#">90120-0766</a>	<a href="#">90120-0926</a>	
7	<a href="#">90120-0127</a>	<a href="#">90120-0767</a>	<a href="#">90120-0927</a>	
8	<a href="#">90120-0128</a>	<a href="#">90120-0768</a>	<a href="#">90120-0928</a>	
9	<a href="#">90120-0129</a>	<a href="#">90120-0769</a>	<a href="#">90120-0929</a>	
10	<a href="#">90120-0130</a>	<a href="#">90120-0770</a>	<a href="#">90120-0930</a>	
11	<a href="#">90120-0131</a>	<a href="#">90120-0771</a>	<a href="#">90120-0931</a>	
12	<a href="#">90120-0132</a>	<a href="#">90120-0772</a>	<a href="#">90120-0932</a>	
13	<a href="#">90120-0133</a>	<a href="#">90120-0773</a>	<a href="#">90120-0933</a>	
14	<a href="#">90120-0134</a>	<a href="#">90120-0774</a>	<a href="#">90120-0934</a>	
15	<a href="#">90120-0135</a>	<a href="#">90120-0775</a>	<a href="#">90120-0935</a>	
16	<a href="#">90120-0136</a>	<a href="#">90120-0776</a>	<a href="#">90120-0936</a>	
17	<a href="#">90120-0137</a>	<a href="#">90120-0777</a>	<a href="#">90120-0937</a>	
18	<a href="#">90120-0138</a>	<a href="#">90120-0778</a>	<a href="#">90120-0938</a>	
19	<a href="#">90120-0139</a>	<a href="#">90120-0779</a>	<a href="#">90120-0939</a>	
20	<a href="#">90120-0140</a>	<a href="#">90120-0780</a>	<a href="#">90120-0940</a>	
21	<a href="#">90120-0141</a>	<a href="#">90120-0781</a>	<a href="#">90120-0941</a>	

For other available versions contact Molex

Circuits	Order No.			Lead-free
	Plating A	Plating E	Plating F	
22	<a href="#">90120-0142</a>	<a href="#">90120-0782</a>	<a href="#">90120-0942</a>	Yes
23	<a href="#">90120-0143</a>	<a href="#">90120-0783</a>	<a href="#">90120-0943</a>	
24	<a href="#">90120-0144</a>	<a href="#">90120-0784</a>	<a href="#">90120-0944</a>	
25	<a href="#">90120-0145</a>	<a href="#">90120-0785</a>	<a href="#">90120-0945</a>	
26	<a href="#">90120-0146</a>	<a href="#">90120-0786</a>	<a href="#">90120-0946</a>	
27	<a href="#">90120-0147</a>	<a href="#">90120-0787</a>	<a href="#">90120-0947</a>	
28	<a href="#">90120-0148</a>	<a href="#">90120-0788</a>	<a href="#">90120-0948</a>	
29	<a href="#">90120-0149</a>	<a href="#">90120-0789</a>	<a href="#">90120-0949</a>	
30	<a href="#">90120-0150</a>	<a href="#">90120-0790</a>	<a href="#">90120-0950</a>	
31	<a href="#">90120-0151</a>	<a href="#">90120-0791</a>	<a href="#">90120-0951</a>	
32	<a href="#">90120-0152</a>	<a href="#">90120-0792</a>	<a href="#">90120-0952</a>	
33	<a href="#">90120-0153</a>	<a href="#">90120-0793</a>	<a href="#">90120-0953</a>	
34	<a href="#">90120-0154</a>	<a href="#">90120-0794</a>	<a href="#">90120-0954</a>	
35	<a href="#">90120-0155</a>	<a href="#">90120-0795</a>	<a href="#">90120-0955</a>	
36	<a href="#">90120-0156</a>	<a href="#">90120-0796</a>	<a href="#">90120-0956</a>	
37	<a href="#">90120-0157</a>	<a href="#">90120-0797</a>	<a href="#">90120-0957</a>	
38	<a href="#">90120-0158</a>	<a href="#">90120-0798</a>	<a href="#">90120-0958</a>	
39	<a href="#">90120-0159</a>	<a href="#">90120-0799</a>	<a href="#">90120-0959</a>	
40	<a href="#">90120-0160</a>	<a href="#">90120-0800</a>	<a href="#">90120-0960</a>	





# PRODUCT SPECIFICATION

LANGUAGE

ENGLISH

## 4.0 ELECTRICAL SPECIFICATIONS

- 4.1 Operating Voltage according to IEC 130-1:  $\leq 350 \text{ V DC/AC}$
- 4.2 Current Carrying Capacity:  $\leq 3\text{A}$
- 4.3 Contact Resistance:  $\leq 20\text{m}\Omega$  initial,  
 $\leq 10\text{m}\Omega$  max. change after each test
- 4.4 Insulation Resistance at 500 VDC after each test:
  - shrouded and unshrouded headers:  $\geq 5000\text{M}\Omega$
  - PCB connectors, crimp housings and modules:  $\geq 1000\text{M}\Omega$
- 4.5 Dielectric Withstand Voltage:  $\geq 1000\text{V}$

## 5.0 MECHANICAL SPECIFICATIONS

- 5.1 Contact Retention in housing according to IEC 512-8 test 15b:
  - shrouded and unshrouded headers:
    - straight (two directions):  $\geq 20\text{N}$
    - right angle (one direction):  $\geq 20\text{N}$
  - PCB connectors:
    - 90147, 90148, 90151:  $\geq 15 \text{ N}$
    - 90152:  $\geq 8.8$
  - 90119 loaded in crimp housings and modules:  $\geq 15 \text{ N}$

REVISE ON PC ONLY		<b>TITLE</b>	
<b>J</b>	VARIOUS MODS. E2003-0443 02.10.11 MS	<b>C-GRID III</b>	
	DESCRIPTION		
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DOCUMENT NO. PS-99020-0001		FILE NAME PS99020_0001.DOC	SHEET 2 of 8
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LANGUAGE

ENGLISH

5.2 Insertion Force per contact according to IEC 512-7 test 13b using gauge P11 in Appendix 1:  
 - PCB connectors (90147, 90148, 90151 & 90152)  
 and 90119 loaded in crimp modules and housings

-Gold plated:  $\leq 1$  N

-Tin plated:  $\leq 3$  N

5.3 Withdrawal Force per contact according to IEC 512-7 test 13b using gauge P12 in Appendix 1:  
 - PCB connectors (90147,90148,90151 & 90152)  
 and 90119 loaded in crimp modules and housings

-Gold plated:  $\geq 0.2$  N

-Tin plated:  $\geq 0.2$  N

5.4 Durability according to IEC 512-5 test 9a:

Class 1: 30 cycles

Class 2: 100 cycles

Class 3: 200 cycles

Class 4: 500 cycles

5.5 Solderability according to IEC 512-6 test 12a method 1:  
 235°C/2s

95% of immersed area must not show voids, pinholes, etc.

5.6 Resistance to Soldering Heat according to IEC 512-6 test 12d: 260°C/10s

There shall be no damage that will impair normal operation.

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- 5.7 Shock according to IEC 512-4 test 6c: 50g/11ms
- 5.8 Vibration according to IEC 512-4 test 6d with mountings per Appendix 2:
- |              |                                      |
|--------------|--------------------------------------|
| Class 1:     | 10 - 500 Hz, 0.35mm or 5g            |
|              | Duration: 2 hours each, 3 Directions |
| Class 2,3,4: | 10 - 2000 Hz, 1.50mm or 20g          |
|              | Duration: 2 hours each, 3 directions |
- 5.9 Tensile Strength of crimp termination according to IEC 512-8 test 16d:  
75% of wire tensile strength

## 6.0 ENVIRONMENTAL SPECIFICATIONS

- 6.1 Operating Temperature:
- unshrouded and shrouded headers and PCB connectors: -55°C to +125°C
  - crimp modules and housings: -55°C to +105°C
- 6.2 Damp Heat according to IEC 512-6 test 11c:
- |                |                   |
|----------------|-------------------|
| Class 1,2:55°C | 90- 95% R.H.      |
|                | Duration: 21 days |
| Class 3,4:55°C | 90 - 95% R.H.     |
|                | Duration: 56 days |

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### 6.3 Dry Heat according to IEC 512-6 test 11i:

- unshrouded and shrouded headers and PCB connectors: 125°C Duration: 16 hours
- crimp modules and housings: 105°C Duration: 16 hours

### 6.4.1 Industrial Atmosphere according to IEC 68-2-43 test Kd:

Class	SO <sub>2</sub> at 10ppm
1:	Not Applicable
2,3:	4 days
4:	10 days

### 6.4.2 Industrial Atmosphere according to IEC 68-2-42 test Kc:

Class	H <sub>2</sub> S at 1ppm
1:	Not Applicable
2,3:	4 days
4:	10 days

### 6.4.3 Thermal Shock according to IEC 512-6 test 11d:

- unshrouded and shrouded headers and PCB connectors: -55°C to +125°C, 10 cycles
- crimp modules and housings: -55°C to +105°C, 10 cycles

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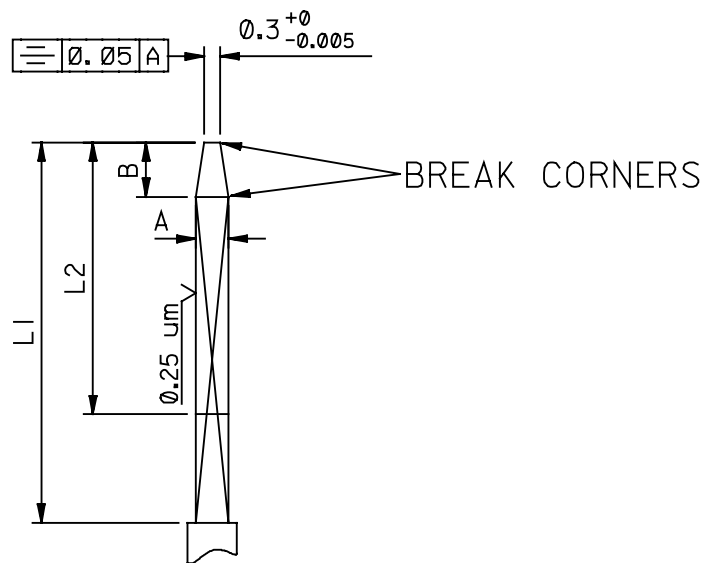
LANGUAGE

ENGLISH

**APPENDIX 1**

INSERTION AND WITHDRAWAL GAUGES

GAUGE	A	B	L1	L2(MIN)	WEIGHT
P11	$0.65^{+0.0005}_0$	$1^{+0}_{-0.10}$	$7^{+0}_{-0.10}$	5	20 g
P12	$0.60^{+0}_{-0.0005}$	$1^{+0}_{-0.10}$	$6.5^{+0}_{-0.10}$	5	-



MATERIAL: HARDENED STEEL



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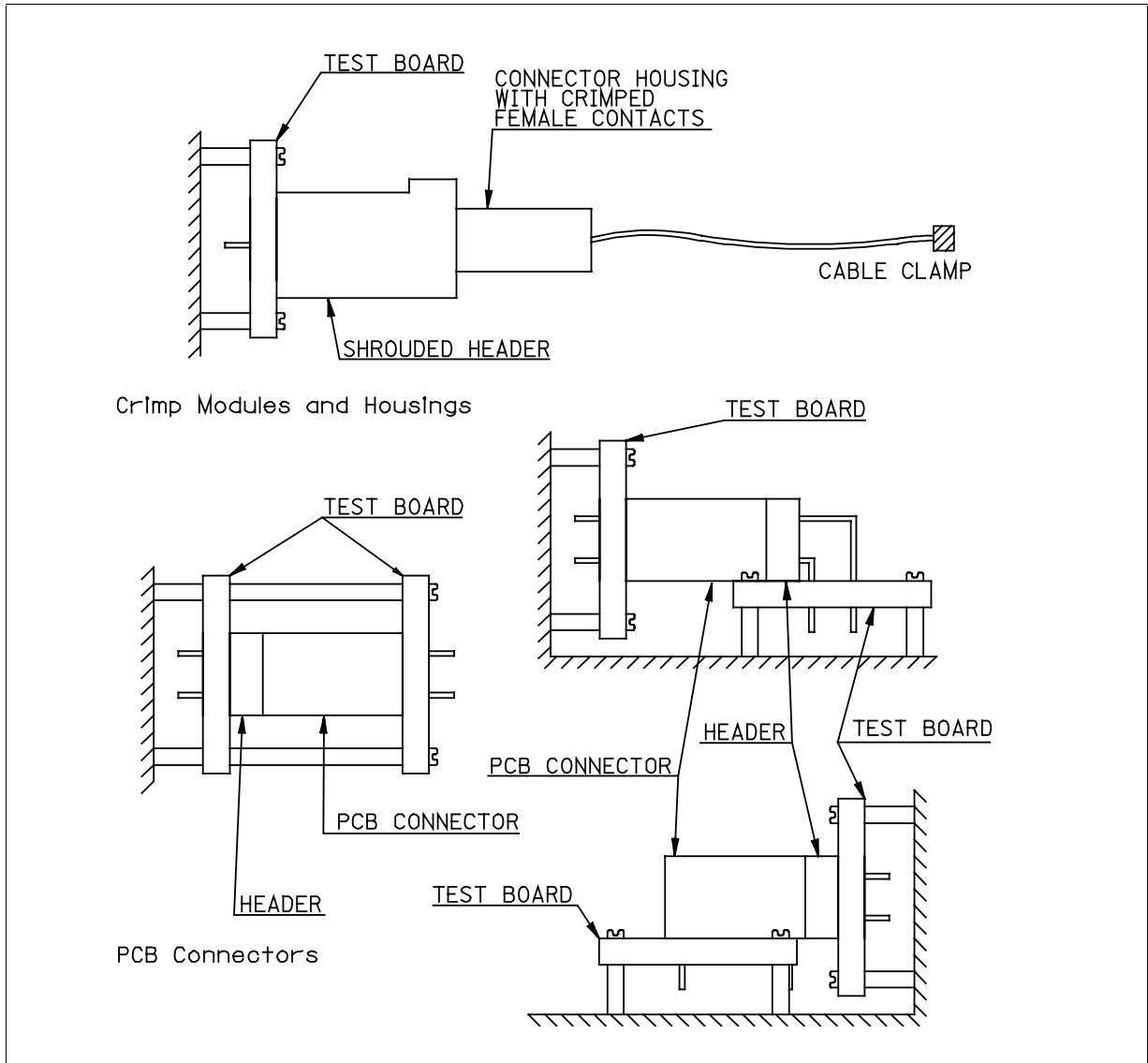
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**APPENDIX 2**

**VIBRATION MOUNTINGS**



Crimp Modules and Housings

PCB Connectors

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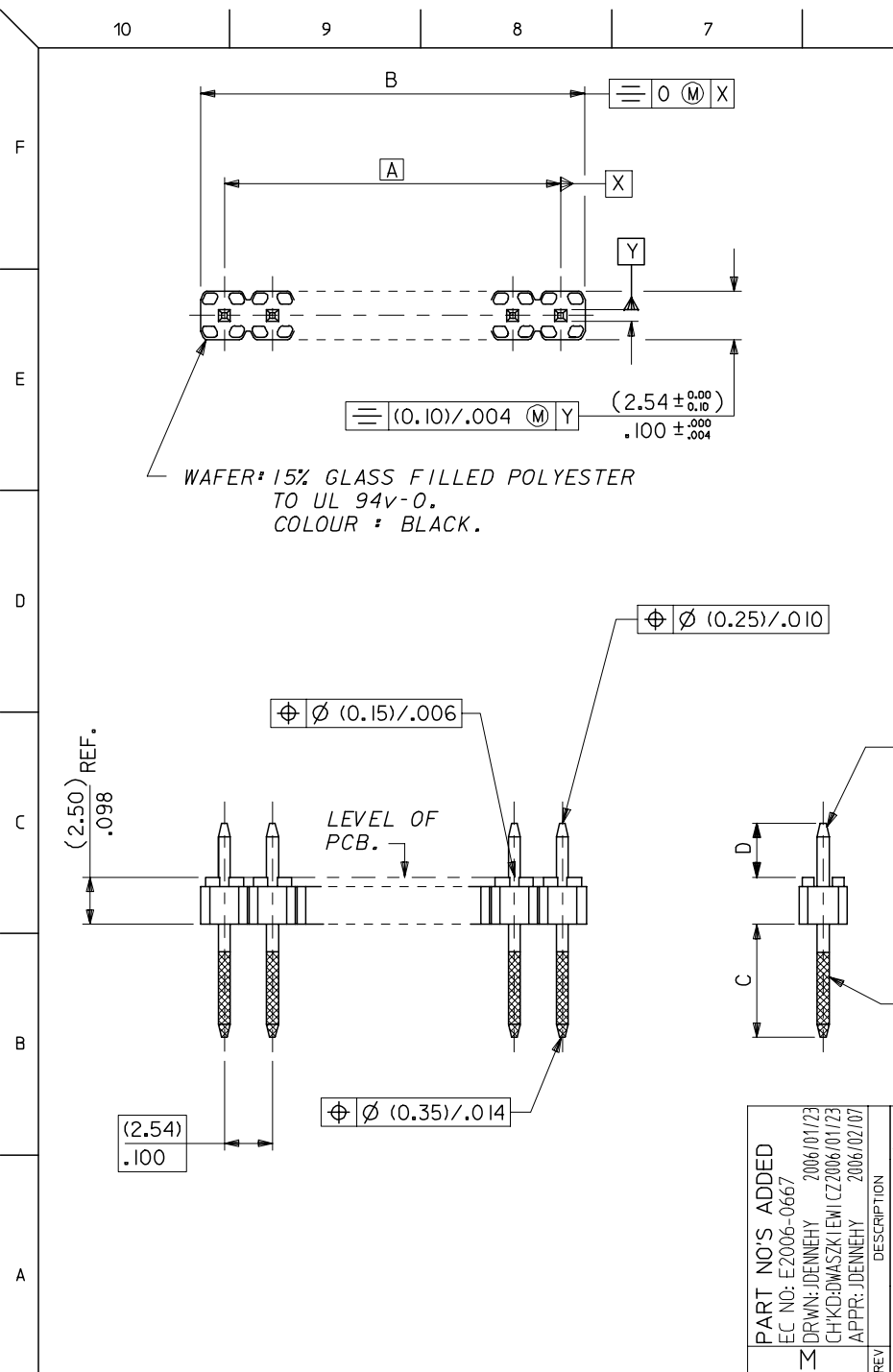
LANGUAGE

ENGLISH

## APPENDIX 3 C-GRID III PRODUCT RANGE

PRODUCT TYPE	SERIES	
QF50	5320	FEMALE
	5576	HEADER VERTICAL
	5578	HEADER RIGHT ANGLE
SHROUDED HEADERS	70246	DUAL ROW LOW PROFILE
	70247	DUAL ROW LOW PROFILE RIGHT ANGLE
	87256	WITH ALTERNATIVE POLARISATION PEGS
	90130-1	DUAL ROW VERTICAL FULLY LOADED
	90130-2	DUAL ROW VERTICAL VOIDED PINS
	90130-3	DUAL ROW RIGHT ANGLE FULLY LOADED
	90130-4	DUAL ROW RIGHT ANGLE VOIDED PINS
	90136-1	SINGLE ROW VERTICAL
KINKED PIN HEADERS	90627	SINGLE ROW VERTICAL
	90629	SINGLE ROW RIGHT ANGLE
	90628	DUAL ROW VERTICAL
	90630	DUAL ROW RIGHT ANGLE
UNSHROUDED HEADERS	90120	SINGLE ROW VERTICAL
	90121	SINGLE ROW RIGHT ANGLE
	90122	DUAL ROW RIGHT ANGLE
	90131	DUAL ROW VERTICAL
	90294	DUAL ROW VERTICAL DOUBLE BODY
	90547	SINGLE ROW VERTICAL DOUBLE BODY
CRIMP TERMINALS	90119	FEMALE CRIMP
PCB CONNECTORS	90147	SINGLE ROW VERTICAL
	90148	SINGLE ROW HORIZONTAL
	90151	DUAL ROW VERTICAL
	90152	DUAL ROW HORIZONTAL
MODULAR HOUSINGS	90123	SINGLE ROW CRIMP
	90143	DUAL ROW
CRIMP HOUSINGS	90142	DUAL ROW
	90156	SINGLE ROW
	90160	DUAL ROW

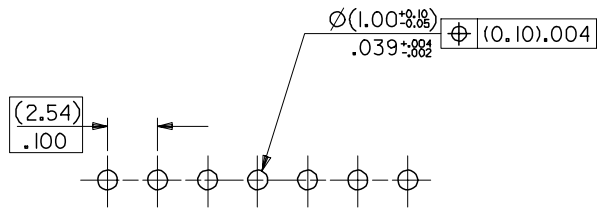
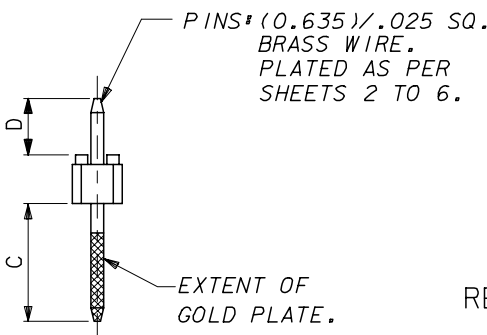
REVISE ON PC ONLY		TITLE	
<b>J</b>	VARIOUS MODS. E2003-0443 02.10.11 MS	<b>C-GRID III</b>	
REV	DESCRIPTION	FILE NAME	SHEET
DOCUMENT NO. PS-99020-0001		PS99020_0001.DOC	8 of 8
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CKT SIZE	DIM. "A"		DIM. "B" $\begin{matrix} +0 \\ -0.45 \\ -0.18 \end{matrix}$		CKT SIZE	DIM. "A"		DIM. "B" $\begin{matrix} +0 \\ -0.45 \\ -0.18 \end{matrix}$	
1X 1			(2.54)	.100	1X21	(50.80)	2.000	(53.34)	2.100
1X 2	(2.54)	.100	(5.08)	.200	1X22	(53.34)	2.100	(55.88)	2.200
1X 3	(5.08)	.200	(7.62)	.300	1X23	(55.88)	2.200	(58.42)	2.300
1X 4	(7.62)	.300	(10.16)	.400	1X24	(58.42)	2.300	(60.96)	2.400
1X 5	(10.16)	.400	(12.70)	.500	1X25	(60.96)	2.400	(63.50)	2.500
1X 6	(12.70)	.500	(15.24)	.600	1X26	(63.50)	2.500	(66.04)	2.600
1X 7	(15.24)	.600	(17.78)	.700	1X27	(66.04)	2.600	(68.58)	2.700
1X 8	(17.78)	.700	(20.32)	.800	1X28	(68.58)	2.700	(71.12)	2.800
1X 9	(20.32)	.800	(22.86)	.900	1X29	(71.12)	2.800	(73.66)	2.900
1X10	(22.86)	.900	(25.40)	1.000	1X30	(73.66)	2.900	(76.20)	3.000
1X11	(25.40)	1.000	(27.94)	1.100	1X31	(76.20)	3.000	(78.74)	3.100
1X12	(27.94)	1.100	(30.48)	1.200	1X32	(78.74)	3.100	(81.28)	3.200
1X13	(30.48)	1.200	(33.02)	1.300	1X33	(81.28)	3.200	(83.82)	3.300
1X14	(33.02)	1.300	(35.56)	1.400	1X34	(83.82)	3.300	(86.36)	3.400
1X15	(35.56)	1.400	(38.10)	1.500	1X35	(86.36)	3.400	(88.90)	3.500
1X16	(38.10)	1.500	(40.64)	1.600	1X36	(88.90)	3.500	(91.44)	3.600
1X17	(40.64)	1.600	(43.18)	1.700	1X37	(91.44)	3.600	(93.98)	3.700
1X18	(43.18)	1.700	(45.72)	1.800	1X38	(93.98)	3.700	(96.52)	3.800
1X19	(45.72)	1.800	(48.26)	1.900	1X39	(96.52)	3.800	(99.06)	3.900
1X20	(48.26)	1.900	(50.80)	2.000	1X40	(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.



RECOMMENDED P.C. BOARD HOLE PATTERN

PART NO'S ADDED EC NO: E2006-0667 DRWN: DENNEHY 2006/01/23 CHKD: DWASZKIEWICZ 2006/01/23 APPR: DENNEHY 2006/02/07	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
				MM ONLY	4:1	METRIC		
				mm	INCH			
				4 PLACES ± --- ± ---	3 PLACES ± --- ± ---			
		2 PLACES ± --- ± ---	1 PLACE ± --- ± ---					
		ANGULAR ± ---°		DRAWN BY DATE		TITLE		
				JDENNEHY 2006/01/18		C-GRID III SINGLE ROW STRAIGHT PIN HEADER		
				CHECKED BY DATE		MOLEX MOLEX INCORPORATED		
				DWASZKIEWICZ 2006/01/18		SDA-90120		
				APPROVED BY DATE		SHEET NO.		
				JDENNEHY 2006/01/18		1 OF 6		
				MATERIAL NO.		DOCUMENT NO.		
				SEE CHART		SDA-90120		
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				
				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 (+0.20) ±.008 (6.75) .266

DIM D (+0.20) (+0.30) ±.008 (+0.12) (2.90) .114

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

**STANDARD PRODUCTS**

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

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

DRAWN BY	DATE
JDENNEHY	2006/01/18
CHECKED BY	DATE
DWASZKIEWICZ	2006/01/18
APPROVED BY	DATE
JDENNEHY	2006/01/18
MATERIAL NO.	
SIZE	A3

SCALE ---  
DESIGN UNITS METRIC  
THIRD ANGLE PROJECTION

TITLE  
C-GRID III  
SINGLE ROW STRAIGHT  
PIN HEADER

MOLEX MOLEX INCORPORATED

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

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