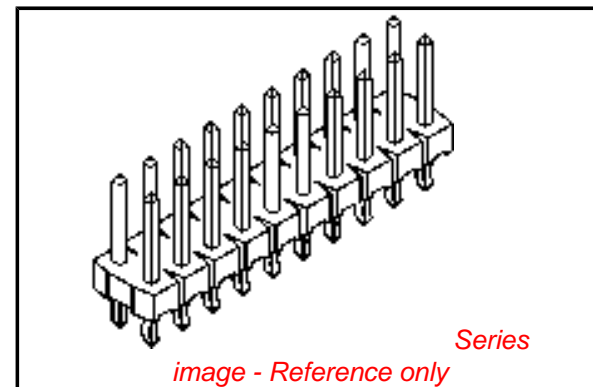


**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0906280788](#)  
**Status:** **Active**  
**Overview:** [cgrid\\_sl\\_products](#)  
**Description:** 2.54mm (.100") Pitch C-Grid III™ Header, Dual Row, Vertical, with Kinked PC Tail, 56 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating  
**Replacement Part Number:** [90131-0788](#)

**Documents:**

[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Drawing \(PDF\)](#)



**General**

Product Family	PCB Headers
Series	<a href="#">90628</a>
Application	Wire-to-Board
Obsolete Date	2004/12/01
Overview	<a href="#">cgrid_sl_products</a>
Product Name	C-Grid III™
Replacement Part Number	<a href="#">90131-0788</a>

**Physical**

Breakaway	Yes
Circuits (Loaded)	56
Circuits (maximum)	56
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	2
Orientation	Vertical
PC Tail Length (in)	0.114 In
PC Tail Length (mm)	2.90 mm
PCB Locator	No
PCB Retention	Yes
PCB Thickness Recommended (in)	0.061 In
PCB Thickness Recommended (mm)	1.50 mm
Packaging Type	Bag
Pitch - Mating Interface (in)	0.100 In
Pitch - Mating Interface (mm)	2.54 mm
Plating min: Mating (µin)	120
Plating min: Mating (µm)	3
Plating min: Termination (µin)	120
Plating min: Termination (µm)	3
Polarized to Mating Part	No
Polarized to PCB	No
Shrouded	No
Stackable	Yes
Temperature Range - Operating	-55°C to +125°C
Termination Interface: Style	Through Hole

**EU RoHS**

**ELV and RoHS Compliant**  
**REACH SVHC Contains SVHC: No**  
**Halogen-Free Status**

**China RoHS**



**Not Halogen-Free**  
**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto: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**  
[90628Series](#)

**Electrical**

Current - Maximum per Contact

3A

Voltage - Maximum

350V

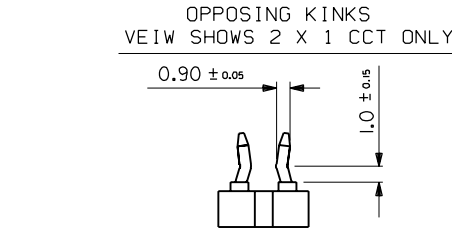
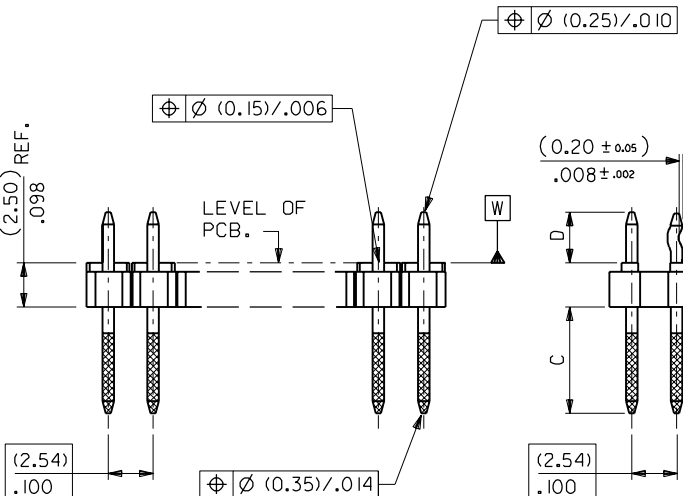
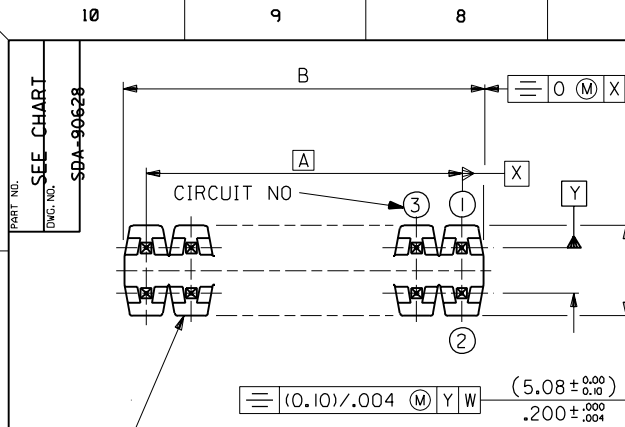
**Material Info****Reference - Drawing Numbers**

Sales Drawing

SDA-90628

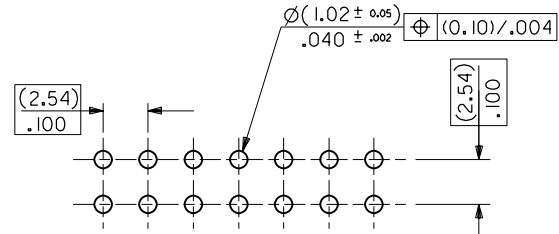
This document was generated on 05/26/2010

**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**



CKT SIZE	DIM. "A"		DIM. "B" ( $\pm 0.20$ / $\pm .008$ )		CKT SIZE	DIM. "A"		DIM. "B" ( $\pm 0.20$ / $\pm .008$ )	
2X 1			(2.54)	.100	2X21	(50.80)	2.000	(53.34)	2.100
2X 2	(2.54)	.100	(5.08)	.200	2X22	(53.34)	2.100	(55.88)	2.200
2X 3	(5.08)	.200	(7.62)	.300	2X23	(55.88)	2.200	(58.42)	2.300
2X 4	(7.62)	.300	(10.16)	.400	2X24	(58.42)	2.300	(60.96)	2.400
2X 5	(10.16)	.400	(12.70)	.500	2X25	(60.96)	2.400	(63.50)	2.500
2X 6	(12.70)	.500	(15.24)	.600	2X26	(63.50)	2.500	(66.04)	2.600
2X 7	(15.24)	.600	(17.78)	.700	2X27	(66.04)	2.600	(68.58)	2.700
2X 8	(17.78)	.700	(20.32)	.800	2X28	(68.58)	2.700	(71.12)	2.800
2X 9	(20.32)	.800	(22.86)	.900	2X29	(71.12)	2.800	(73.66)	2.900
2X10	(22.86)	.900	(25.40)	1.000	2X30	(73.66)	2.900	(76.20)	3.000
2X11	(25.40)	1.000	(27.94)	1.100	2X31	(76.20)	3.000	(78.74)	3.100
2X12	(27.94)	1.100	(30.48)	1.200	2X32	(78.74)	3.100	(81.28)	3.200
2X13	(30.48)	1.200	(33.02)	1.300	2X33	(81.28)	3.200	(83.82)	3.300
2X14	(33.02)	1.300	(35.56)	1.400	2X34	(83.82)	3.300	(86.36)	3.400
2X15	(35.56)	1.400	(38.10)	1.500	2X35	(86.36)	3.400	(88.90)	3.500
2X16	(38.10)	1.500	(40.64)	1.600	2X36	(88.90)	3.500	(91.44)	3.600
2X17	(40.64)	1.600	(43.18)	1.700	2X37	(91.44)	3.600	(93.98)	3.700
2X18	(43.18)	1.700	(45.72)	1.800	2X38	(93.98)	3.700	(96.52)	3.800
2X19	(45.72)	1.800	(48.26)	1.900	2X39	(96.52)	3.800	(99.06)	3.900
2X20	(48.26)	1.900	(50.80)	2.000	2X40	(99.06)	3.900	(101.60)	4.000

NOTES  
 1. FOR ASSY NUMBERS WITH FINISH OPTIONS AND DIMS C & D SEE SUBSEQUENT SHEETS.  
 2. PCB THICKNESS: (1.37-1.80) / .054-.071.



RECOMMENDED P.C. BOARD HOLE PATTERN

2	B
1	B
SH.	REV.

REVISE ONLY ON CAD SYSTEM

CAD/CAM FILENAME: SA90628X1 DCN

TITLE: C-GRID III DUAL ROW KINKED PIN HEADER

MOLEX MOLEX EUROPE

SHEET NO. DATE: 10F2 90/09/11

PART NO. SEE CHART DWG. NO. SDA-90628 SIZE B

FOR PREVIOUS DRAWING ISSUES SEE MRI.

NEW RELEASE ECR E00166 11 SEPTEMBER 1990 RD

DIMENSIONS SHOWN ( METRIC ) INCH	
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR $\pm \frac{1}{2}^\circ$	
3 PLACE $\pm$	
2 PLACE $\pm$	$\pm .10$
1 PLACE	$\pm .25$
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
DESIGN DIMENSION (PRIMARY)	<input checked="" type="checkbox"/> (MM) <input type="checkbox"/> IN.
EQUIVALENT DIMENSION (SECONDARY)	<input type="checkbox"/> (MM) <input checked="" type="checkbox"/> IN.

DRWG BY: RD

CHK'D BY:

APP'D BY:

SCALE: 4:1

STRAIGHT PINS OMITTED FROM VIEW

	10	9	8	7	6	5	4	3	2	1																																																																																																																																																																																																													
F	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">CIRCUIT SIZE</th> <th style="width: 10%;">PLATING TYPE A PART NO.</th> <th style="width: 10%;">PLATING TYPE E PART NO.</th> <th style="width: 10%;">PLATING TYPE F PART NO.</th> <th style="width: 10%;">KINKED PIN POSITIONS</th> </tr> </thead> <tbody> <tr><td>2 X 1</td><td>90628 -0121</td><td>90628 -0761</td><td>90628 -0921</td><td>1</td></tr> <tr><td>2 X 2</td><td>↑ -0122</td><td>↑ -0762</td><td>↑ -0922</td><td>1,3</td></tr> <tr><td>2 X 3</td><td>-0123</td><td>-0763</td><td>-0923</td><td>1 &amp; 5</td></tr> <tr><td>2 X 4</td><td>-0124</td><td>-0764</td><td>-0924</td><td>3 &amp; 5</td></tr> <tr><td>2 X 5</td><td>-0125</td><td>-0765</td><td>-0925</td><td>3 &amp; 7</td></tr> <tr><td>2 X 6</td><td>-0126</td><td>-0766</td><td>-0926</td><td>5 &amp; 7</td></tr> <tr><td>2 X 7</td><td>-0127</td><td>-0767</td><td>-0927</td><td>5 &amp; 9</td></tr> <tr><td>2 X 8</td><td>-0128</td><td>-0768</td><td>-0928</td><td>7 &amp; 9</td></tr> <tr><td>2 X 9</td><td>-0129</td><td>-0769</td><td>-0929</td><td>7 &amp; 11</td></tr> <tr><td>2 X 10</td><td>-0130</td><td>-0770</td><td>-0930</td><td>9 &amp; 11</td></tr> <tr><td>2 X 11</td><td>-0131</td><td>-0771</td><td>-0931</td><td>1,11 &amp; 21</td></tr> <tr><td>2 X 12</td><td>-0132</td><td>-0772</td><td>-0932</td><td>1,12 &amp; 23</td></tr> <tr><td>2 X 13</td><td>-0133</td><td>-0773</td><td>-0933</td><td>1,13 &amp; 25</td></tr> <tr><td>2 X 14</td><td>-0134</td><td>-0774</td><td>-0934</td><td>1,15 &amp; 27</td></tr> <tr><td>2 X 15</td><td>-0135</td><td>-0775</td><td>-0935</td><td>1,15 &amp; 29</td></tr> <tr><td>2 X 16</td><td>-0136</td><td>-0776</td><td>-0936</td><td>1,15 &amp; 31</td></tr> <tr><td>2 X 17</td><td>-0137</td><td>-0777</td><td>-0937</td><td>1,17 &amp; 33</td></tr> <tr><td>2 X 18</td><td>-0138</td><td>-0778</td><td>-0938</td><td>1,17 &amp; 35</td></tr> <tr><td>2 X 19</td><td>-0139</td><td>-0779</td><td>-0939</td><td>1,19 &amp; 37</td></tr> <tr><td>2 X 20</td><td>-0140</td><td>-0780</td><td>-0940</td><td>1,19 &amp; 39</td></tr> <tr><td>2 X 21</td><td>-0141</td><td>-0781</td><td>-0941</td><td>1,21 &amp; 41</td></tr> <tr><td>2 X 22</td><td>-0142</td><td>-0782</td><td>-0942</td><td>1,21 &amp; 43</td></tr> <tr><td>2 X 23</td><td>-0143</td><td>-0783</td><td>-0943</td><td>1,23 &amp; 45</td></tr> <tr><td>2 X 24</td><td>-0144</td><td>-0784</td><td>-0944</td><td>1,23 &amp; 47</td></tr> <tr><td>2 X 25</td><td>-0145</td><td>-0785</td><td>-0945</td><td>1,25 &amp; 49</td></tr> <tr><td>2 X 26</td><td>-0146</td><td>-0786</td><td>-0946</td><td>1,25 &amp; 51</td></tr> <tr><td>2 X 27</td><td>-0147</td><td>-0787</td><td>-0947</td><td>1,27 &amp; 53</td></tr> <tr><td>2 X 28</td><td>-0148</td><td>-0788</td><td>-0948</td><td>1,27 &amp; 55</td></tr> <tr><td>2 X 29</td><td>-0149</td><td>-0789</td><td>-0949</td><td>1,29 &amp; 57</td></tr> <tr><td>2 X 30</td><td>-0150</td><td>-0790</td><td>-0950</td><td>1,29 &amp; 59</td></tr> <tr><td>2 X 31</td><td>-0151</td><td>-0791</td><td>-0951</td><td>1,31 &amp; 61</td></tr> <tr><td>2 X 32</td><td>-0152</td><td>-0792</td><td>-0952</td><td>1,31 &amp; 63</td></tr> <tr><td>2 X 33</td><td>-0153</td><td>-0793</td><td>-0953</td><td>1,33 &amp; 65</td></tr> <tr><td>2 X 34</td><td>-0154</td><td>-0794</td><td>-0954</td><td>1,33 &amp; 67</td></tr> <tr><td>2 X 35</td><td>-0155</td><td>-0795</td><td>-0955</td><td>1,35 &amp; 69</td></tr> <tr><td>2 X 36</td><td>-0156</td><td>-0796</td><td>-0956</td><td>1,35 &amp; 71</td></tr> <tr><td>2 X 37</td><td>-0157</td><td>-0797</td><td>-0957</td><td>1,37 &amp; 73</td></tr> <tr><td>2 X 38</td><td>-0158</td><td>-0798</td><td>-0958</td><td>1,37 &amp; 75</td></tr> <tr><td>2 X 39</td><td>↓ -0159</td><td>↓ -0799</td><td>↓ -0959</td><td>1,39 &amp; 77</td></tr> <tr><td>2 X 40</td><td>90628 -0160</td><td>90628 -0800</td><td>90628 -0960</td><td>1,39 &amp; 79</td></tr> </tbody> </table>										CIRCUIT SIZE	PLATING TYPE A PART NO.	PLATING TYPE E PART NO.	PLATING TYPE F PART NO.	KINKED PIN POSITIONS	2 X 1	90628 -0121	90628 -0761	90628 -0921	1	2 X 2	↑ -0122	↑ -0762	↑ -0922	1,3	2 X 3	-0123	-0763	-0923	1 & 5	2 X 4	-0124	-0764	-0924	3 & 5	2 X 5	-0125	-0765	-0925	3 & 7	2 X 6	-0126	-0766	-0926	5 & 7	2 X 7	-0127	-0767	-0927	5 & 9	2 X 8	-0128	-0768	-0928	7 & 9	2 X 9	-0129	-0769	-0929	7 & 11	2 X 10	-0130	-0770	-0930	9 & 11	2 X 11	-0131	-0771	-0931	1,11 & 21	2 X 12	-0132	-0772	-0932	1,12 & 23	2 X 13	-0133	-0773	-0933	1,13 & 25	2 X 14	-0134	-0774	-0934	1,15 & 27	2 X 15	-0135	-0775	-0935	1,15 & 29	2 X 16	-0136	-0776	-0936	1,15 & 31	2 X 17	-0137	-0777	-0937	1,17 & 33	2 X 18	-0138	-0778	-0938	1,17 & 35	2 X 19	-0139	-0779	-0939	1,19 & 37	2 X 20	-0140	-0780	-0940	1,19 & 39	2 X 21	-0141	-0781	-0941	1,21 & 41	2 X 22	-0142	-0782	-0942	1,21 & 43	2 X 23	-0143	-0783	-0943	1,23 & 45	2 X 24	-0144	-0784	-0944	1,23 & 47	2 X 25	-0145	-0785	-0945	1,25 & 49	2 X 26	-0146	-0786	-0946	1,25 & 51	2 X 27	-0147	-0787	-0947	1,27 & 53	2 X 28	-0148	-0788	-0948	1,27 & 55	2 X 29	-0149	-0789	-0949	1,29 & 57	2 X 30	-0150	-0790	-0950	1,29 & 59	2 X 31	-0151	-0791	-0951	1,31 & 61	2 X 32	-0152	-0792	-0952	1,31 & 63	2 X 33	-0153	-0793	-0953	1,33 & 65	2 X 34	-0154	-0794	-0954	1,33 & 67	2 X 35	-0155	-0795	-0955	1,35 & 69	2 X 36	-0156	-0796	-0956	1,35 & 71	2 X 37	-0157	-0797	-0957	1,37 & 73	2 X 38	-0158	-0798	-0958	1,37 & 75	2 X 39	↓ -0159	↓ -0799	↓ -0959	1,39 & 77	2 X 40	90628 -0160	90628 -0800	90628 -0960	1,39 & 79
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2 X 24	-0144	-0784	-0944	1,23 & 47																																																																																																																																																																																																																			
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2 X 26	-0146	-0786	-0946	1,25 & 51																																																																																																																																																																																																																			
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E	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;"> <b>DIM C</b>  <math>(\pm 0.25)</math>  <math>\pm 0.010</math>  <math>(6.75)</math>  <math>.266</math> </td> <td style="width: 50%;"></td> </tr> </table>										<b>DIM C</b> $(\pm 0.25)$ $\pm 0.010$ $(6.75)$ $.266$																																																																																																																																																																																																												
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