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Part Number: [0901200767](#)
Status: **Active**
Overview: [cgrid_iii](#)
Description: 2.54mm (.100") Pitch C-Grid III™ Header, Single Row, Vertical, 7 Circuits, 0.38μm (15μ") Gold (Au) Selective Plating

Documents:

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

General

Product Family PCB Headers
Series [90120](#)
Application Wire-to-Board
Overview [cgrid_iii](#)
Product Name C-Grid III™

Physical

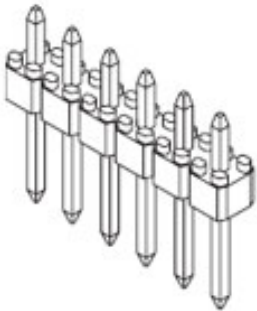
Breakaway Yes
Circuits (Loaded) 7
Circuits (maximum) 7
Color - Resin Black
First Mate / Last Break No
Glow-Wire Compliant No
Guide to Mating Part No
Keying to Mating Part None
Lock to Mating Part None
Material - Metal Brass
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - 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) 15
Plating min: Mating (μm) 0.38
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
Lead-free Process Capability Wave Capable (TH only)



Series

image - Reference only

EU RoHS

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

China RoHS



Not Reviewed

**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

Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

Material Info

Reference - Drawing Numbers

Sales Drawing	SDA-90120
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This document was generated on 05/26/2010

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	10	9	8	7	6	5	4	3	2	1		
F	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.					
		I X 1	90120-0121	90120-9121	90120-0761	90120-9761	90120-0921	90120-9921				
		I X 2	↑ -0122	↑ -9122	↑ -0762	↑ -9762	↑ -0922	↑ -9922				
		I X 3	-0123	-9123	-0763	-9763	-0923	-9923				
		I X 4	-0124	-9124	-0764	-9764	-0924	-9924				
		I X 5	-0125	-9125	-0765	-9765	-0925	-9925				
		I X 6	-0126	-9126	-0766	-9766	-0926	-9926				
		I X 7	-0127	-9127	-0767	-9767	-0927	-9927				
		I X 8	-0128	-9128	-0768	-9768	-0928	-9928				
E	DIM C (±0.20) ±.008 (6.75) .266	I X 9	-0129	-9129	-0769	-9769	-0929	-9929				
		I X 10	-0130	-9130	-0770	-9770	-0930	-9930				
		I X 11	-0131	-9131	-0771	-9771	-0931	-9931				
		I X 12	-0132	-9132	-0772	-9772	-0932	-9932				
		I X 13	-0133	-9133	-0773	-9773	-0933	-9933				
		I X 14	-0134	-9134	-0774	-9774	-0934	-9934				
		I X 15	-0135	-9135	-0775	-9775	-0935	-9935				
		I X 16	-0136	-9136	-0776	-9776	-0936	-9936				
		I X 17	-0137	-9137	-0777	-9777	-0937	-9937				
		I X 18	-0138	-9138	-0778	-9778	-0938	-9938				
D	DIM D (±0.20 0.30) ±.008 -.012 (2.90) .114	I X 19	-0139	-9139	-0779	-9779	-0939	-9939				
		I X 20	-0140	-9140	-0780	-9780	-0940	-9940				
		I X 21	-0141	-9141	-0781	-9781	-0941	-9941				
		I X 22	-0142	-9142	-0782	-9782	-0942	-9942				
		I X 23	-0143	-9143	-0783	-9783	-0943	-9943				
		I X 24	-0144	-9144	-0784	-9784	-0944	-9944				
		I X 25	-0145	-9145	-0785	-9785	-0945	-9945				
		I X 26	-0146	-9146	-0786	-9786	-0946	-9946				
		I X 27	-0147	-9147	-0787	-9787	-0947	-9947				
		I X 28	-0148	-9148	-0788	-9788	-0948	-9948				
C		I X 29	-0149	-9149	-0789	-9789	-0949	-9949				
		I X 30	-0150	-9150	-0790	-9790	-0950	-9950				
		I X 31	-0151	-9151	-0791	-9791	-0951	-9951				
		I X 32	-0152	-9152	-0792	-9792	-0952	-9952				
		I X 33	-0153	-9153	-0793	-9793	-0953	-9953				
		I X 34	-0154	-9154	-0794	-9794	-0954	-9954				
		I X 35	-0155	-9155	-0795	-9795	-0955	-9955				
		I X 36	-0156	-9156	-0796	-9796	-0956	-9956				
		I X 37	-0157	-9157	-0797	-9797	-0957	-9957				
		I X 38	-0158	-9158	-0798	-9798	-0958	-9958				
B		I X 39	↓ -0159	↓ -9159	↓ -0799	↓ -9799	↓ -0959	↓ -9959				
		I X 40	90120-0160	90120-9160	90120-0800	90120-9800	90120-0960	90120-9960				
A	NOTES: FOR PLATING VARIATIONS SEE ENG.STD. SDES-99000-0003.	STANDARD PRODUCTS		REV GD&T FOR DIM B EC NO: S2010-0493 DRWN:SKANG 2009/12/11 CHKD:ATSEE 2009/12/21 APPR:MLONG 2009/12/21	QUALITY SYMBOLS F _A =0 F _C =0 F _P =0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ± ---°		DIMENSION STYLE MM/IN DRAWN BY DATE JDENNEHY 2006/01/18 CHECKED BY DATE DWASZKIEWICZ 2006/01/18 APPROVED BY DATE MLONG 2009/12/21 MATERIAL NO.		SCALE NTS DESIGN UNITS METRIC THIRD ANGLE PROJECTION C-GRID III SINGLE ROW STRAIGHT PIN HEADER MOLEX INCORPORATED SDA-90120		SHEET NO. 2 OF 6
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												

[illegible]

		10		9		8		7		6		5		4		3		2		1	
F		CIRCUIT SIZE	PLATING TYPE B	PLATING TYPE C	PLATING TYPE D	PLATING TYPE G	CIRCUIT SIZE	PLATING TYPE G	PLATING TYPE B	PLATING TYPE C	PLATING TYPE D										
			PART NO.	PART NO.	PART NO.	PART NO.		PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.								
		I X 1	90120-0281	90120-0441	90120-0601	90120-1081	I X 1	90120-1001	90120-0201	90120-0361	90120-0521										
		I X 2	▲ -0282	▲ -0442	▲ -0602	▲ -1082	I X 2	▲ -1002	▲ -0202	▲ -0362	▲ -0522										
		I X 3	-0283	-0443	-0603	-1083	I X 3	-1003	-0203	-0363	-0523										
		I X 4	-0284	-0444	-0604	-1084	I X 4	-1004	-0204	-0364	-0524										
		I X 5	-0285	-0445	-0605	-1085	I X 5	-1005	-0205	-0365	-0525										
		I X 6	-0286	-0446	-0606	-1086	I X 6	-1006	-0206	-0366	-0526										
		I X 7	-0287	-0447	-0607	-1087	I X 7	-1007	-0207	-0367	-0527										
		I X 8	-0288	-0448	-0608	-1088	I X 8	-1008	-0208	-0368	-0528										
		I X 9	-0289	-0449	-0609	-1089	I X 9	-1009	-0209	-0369	-0529										
E	DIM C ^{(±0.20) ±.008} (6.75) .266	I X 10	-0290	-0450	-0610	-1090	I X 10	-1010	-0210	-0370	-0530										
		I X 11	-0291	-0451	-0611	-1091	I X 11	-1011	-0211	-0371	-0531										
		I X 12	-0292	-0452	-0612	-1092	I X 12	-1012	-0212	-0372	-0532										
		I X 13	-0293	-0453	-0613	-1093	I X 13	-1013	-0213	-0373	-0533										
		I X 14	-0294	-0454	-0614	-1094	I X 14	-1014	-0214	-0374	-0534										
		I X 15	-0295	-0455	-0615	-1095	I X 15	-1015	-0215	-0375	-0535										
		I X 16	-0296	-0456	-0616	-1096	I X 16	-1016	-0216	-0376	-0536										
		I X 17	-0297	-0457	-0617	-1097	I X 17	-1017	-0217	-0377	-0537										
		I X 18	-0298	-0458	-0618	-1098	I X 18	-1018	-0218	-0378	-0538										
		I X 19	-0299	-0459	-0619	-1099	I X 19	-1019	-0219	-0379	-0539										
D	DIM D ^{(±0.20 0.30) ±.008 .012} (2.90) .114	I X 20	-0300	-0460	-0620	-1100	I X 20	-1020	-0220	-0380	-0540										
		I X 21	-0301	-0461	-0621	-1101	I X 21	-1021	-0221	-0381	-0541										
		I X 22	-0302	-0462	-0622	-1102	I X 22	-1022	-0222	-0382	-0542										
		I X 23	-0303	-0463	-0623	-1103	I X 23	-1023	-0223	-0383	-0543										
		I X 24	-0304	-0464	-0624	-1104	I X 24	-1024	-0224	-0384	-0544										
		I X 25	-0305	-0465	-0625	-1105	I X 25	-1025	-0225	-0385	-0545										
		I X 26	-0306	-0466	-0626	-1106	I X 26	-1026	-0226	-0386	-0546										
		I X 27	-0307	-0467	-0627	-1107	I X 27	-1027	-0227	-0387	-0547										
		I X 28	-0308	-0468	-0628	-1108	I X 28	-1028	-0228	-0388	-0548										
		I X 29	-0309	-0469	-0629	-1109	I X 29	-1029	-0229	-0389	-0549										
C		I X 30	-0310	-0470	-0630	-1110	I X 30	-1030	-0230	-0390	-0550										
		I X 31	-0311	-0471	-0631	-1111	I X 31	-1031	-0231	-0391	-0551										
		I X 32	-0312	-0472	-0632	-1112	I X 32	-1032	-0232	-0392	-0552										
		I X 33	-0313	-0473	-0633	-1113	I X 33	-1033	-0233	-0393	-0553										
		I X 34	-0314	-0474	-0634	-1114	I X 34	-1034	-0234	-0394	-0554										
		I X 35	-0315	-0475	-0635	-1115	I X 35	-1035	-0235	-0395	-0555										
		I X 36	-0316	-0476	-0636	-1116	I X 36	-1036	-0236	-0396	-0556										
		I X 37	-0317	-0477	-0637	-1117	I X 37	-1037	-0237	-0397	-0557										
		I X 38	-0318	-0478	-0638	-1118	I X 38	-1038	-0238	-0398	-0558										
		I X 39	▼ -0319	▼ -0479	▼ -0639	▼ -1119	I X 39	▼ -1039	▼ -0239	▼ -0399	▼ -0559										
B		I X 40	90120-0320	90120-0480	90120-0640	90120-1120	I X 40	90120-1040	90120-0240	90120-0400	90120-0560										

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	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	DRWN:SKANG	2009/12/11				MM/IN		NTS	METRIC	
	CHKD:ATSEE	2009/12/21				DRAWN BY DATE		TITLE		
	APPR:MLONG	2009/12/21				CHECKED BY DATE		C-GRID III SINGLE ROW STRAIGHT PIN HEADER		
				$\nabla = 0$ $\nabla = 0$ $\nabla = 0$	4 PLACES $\pm \text{---}$ $\pm \text{---}$ 3 PLACES $\pm \text{---}$ $\pm \text{---}$ 2 PLACES $\pm \text{---}$ $\pm \text{---}$ 1 PLACE $\pm \text{---}$ $\pm \text{---}$	APPROVED BY DATE MLONG 2009/12/21	 MOLEX INCORPORATED			
					ANGULAR $\pm \text{---}^\circ$	MATERIAL NO.	DOCUMENT NO.		SHEET NO.	
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE TABLE		SDA-90120		5 OF 6
N1			REV			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		
F	E	D	C	B	A	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.								
							I X 1	90120-0121	90120-9121	90120-0761	90120-9761	90120-0921	90120-9921							
							I X 2	▲ -0122	▲ -9122	▲ -0762	▲ -9762	▲ -0922	▲ -9922							
							I X 3	▲ -0123	▲ -9123	▲ -0763	▲ -9763	▲ -0923	▲ -9923							
							I X 4	▲ -0124	▲ -9124	▲ -0764	▲ -9764	▲ -0924	▲ -9924							
							I X 5	▲ -0125	▲ -9125	▲ -0765	▲ -9765	▲ -0925	▲ -9925							
							I X 6	▲ -0126	▲ -9126	▲ -0766	▲ -9766	▲ -0926	▲ -9926							
							I X 7	▲ -0127	▲ -9127	▲ -0767	▲ -9767	▲ -0927	▲ -9927							
							I X 8	▲ -0128	▲ -9128	▲ -0768	▲ -9768	▲ -0928	▲ -9928							
							I X 9	▲ -0129	▲ -9129	▲ -0769	▲ -9769	▲ -0929	▲ -9929							
							I X 10	▲ -0130	▲ -9130	▲ -0770	▲ -9770	▲ -0930	▲ -9930							
							I X 11	▲ -0131	▲ -9131	▲ -0771	▲ -9771	▲ -0931	▲ -9931							
							I X 12	▲ -0132	▲ -9132	▲ -0772	▲ -9772	▲ -0932	▲ -9932							
							I X 13	▲ -0133	▲ -9133	▲ -0773	▲ -9773	▲ -0933	▲ -9933							
							I X 14	▲ -0134	▲ -9134	▲ -0774	▲ -9774	▲ -0934	▲ -9934							
							I X 15	▲ -0135	▲ -9135	▲ -0775	▲ -9775	▲ -0935	▲ -9935							
							I X 16	▲ -0136	▲ -9136	▲ -0776	▲ -9776	▲ -0936	▲ -9936							
							I X 17	▲ -0137	▲ -9137	▲ -0777	▲ -9777	▲ -0937	▲ -9937							
							I X 18	▲ -0138	▲ -9138	▲ -0778	▲ -9778	▲ -0938	▲ -9938							
							I X 19	▲ -0139	▲ -9139	▲ -0779	▲ -9779	▲ -0939	▲ -9939							
							I X 20	▲ -0140	▲ -9140	▲ -0780	▲ -9780	▲ -0940	▲ -9940							
							I X 21	▲ -0141	▲ -9141	▲ -0781	▲ -9781	▲ -0941	▲ -9941							
							I X 22	▲ -0142	▲ -9142	▲ -0782	▲ -9782	▲ -0942	▲ -9942							
							I X 23	▲ -0143	▲ -9143	▲ -0783	▲ -9783	▲ -0943	▲ -9943							
							I X 24	▲ -0144	▲ -9144	▲ -0784	▲ -9784	▲ -0944	▲ -9944							
							I X 25	▲ -0145	▲ -9145	▲ -0785	▲ -9785	▲ -0945	▲ -9945							
							I X 26	▲ -0146	▲ -9146	▲ -0786	▲ -9786	▲ -0946	▲ -9946							
							I X 27	▲ -0147	▲ -9147	▲ -0787	▲ -9787	▲ -0947	▲ -9947							
							I X 28	▲ -0148	▲ -9148	▲ -0788	▲ -9788	▲ -0948	▲ -9948							
							I X 29	▲ -0149	▲ -9149	▲ -0789	▲ -9789	▲ -0949	▲ -9949							
							I X 30	▲ -0150	▲ -9150	▲ -0790	▲ -9790	▲ -0950	▲ -9950							
							I X 31	▲ -0151	▲ -9151	▲ -0791	▲ -9791	▲ -0951	▲ -9951							
							I X 32	▲ -0152	▲ -9152	▲ -0792	▲ -9792	▲ -0952	▲ -9952							
							I X 33	▲ -0153	▲ -9153	▲ -0793	▲ -9793	▲ -0953	▲ -9953							
							I X 34	▲ -0154	▲ -9154	▲ -0794	▲ -9794	▲ -0954	▲ -9954							
							I X 35	▲ -0155	▲ -9155	▲ -0795	▲ -9795	▲ -0955	▲ -9955							
							I X 36	▲ -0156	▲ -9156	▲ -0796	▲ -9796	▲ -0956	▲ -9956							
							I X 37	▲ -0157	▲ -9157	▲ -0797	▲ -9797	▲ -0957	▲ -9957							
							I X 38	▲ -0158	▲ -9158	▲ -0798	▲ -9798	▲ -0958	▲ -9958							
I X 39	▲ -0159	▲ -9159	▲ -0799	▲ -9799	▲ -0959	▲ -9959														
I X 40	90120-0160	90120-9160	90120-0800	90120-9800	90120-0960	90120-9960														
NOTES: FOR PLATING VARIATIONS SEE ENG.STD. SDES-99000-0003.							PART NO'S ADDED EC NO: E2006-0667 DRWN: JDENNEHY 2006/01/23 CHKD: DWASZKIEWICZ 2006/01/23 APPR: JDENNEHY 2006/02/07													
STANDARD PRODUCTS							QUALITY SYMBOLS ▽=0 ▽=0		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION			
									DRAWN BY JDENNEHY		DATE 2006/01/18		C-GRID III SINGLE ROW STRAIGHT PIN HEADER							
									CHECKED BY DWASZKIEWICZ		DATE 2006/01/18		MOLEX INCORPORATED							
									APPROVED BY JDENNEHY		DATE 2006/01/18		DOCUMENT NO. SDA-90120							
									MATERIAL NO.				SHEET NO. 2 OF 6							
									DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
							SIZE A3													