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Part Number: **0901200160**
Status: **Active**
Overview: [cgrid_iii](#)
Description: 2.54mm (.100") Pitch C-Grid III™ Header, Single Row, Vertical, 40 Circuits, Tin (Sn) 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

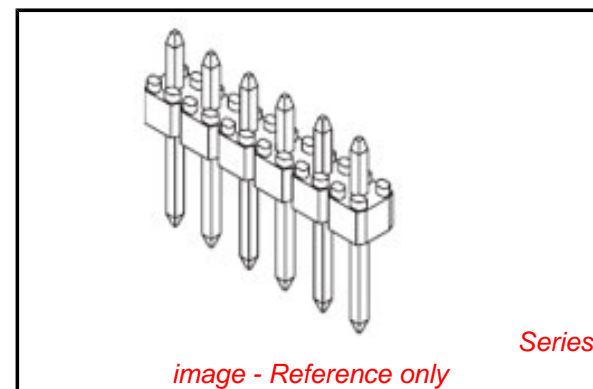
Breakaway	Yes
Circuits (Loaded)	40
Circuits (maximum)	40
Color - Resin	Black
First Mate / Last Break	No
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	None
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - 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
Lead-free Process Capability	Wave Capable (TH only)



EU RoHS

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

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](#)

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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PART NO. SEE CHART
DWG. NO. SDA-90120

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

DIM C (+0.20 / ±.008)
(6.75)
.266

DIM D (+0.20 / ±.008 / ±.012)
(2.90)
.114

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

DIM C (+0.20 / ±.008)
(5.75)
.226

DIM D (+0.20 / ±.008 / ±.012)
(2.90)
.114

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

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

FOR PREVIOUS
DRAWING ISSUES
SEE MRI.

K SEE SHEET I.

LTR	REVISIONS	DIMENSIONS SHOWN (METRIC) INCH UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2° INCH (METRIC) 3 PLACE ± . --- 2 PLACE ± . --- ± --- 1 PLACE ± --- ± --- DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS DESIGN DIMENSION <input checked="" type="checkbox"/> (MM) (PRIMARY) <input type="checkbox"/> IN. EQUIVALENT DIMENSION <input type="checkbox"/> (MM) (SECONDARY) <input checked="" type="checkbox"/> IN.
	SCALE	DRWG BY: DB CHK'D BY: APP'D BY: SCALE:

REVISE ONLY ON CAD SYSTEM		SH.	REV.
CAD/CAM FILENAME SA90120X5 DUN		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
TITLE C-GRID III SINGLE ROW STRAIGHT PIN HEADER			
MOLEX EUROPE		SHEET NO.	DATE
PART NO. SEE CHART		50F	16/ 7/87
DWG. NO. SDA-90120		SIZE	B