

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0901200929

Status:

Active

Overview:

cgrid_iii

Description:

2.54mm (.100") Pitch C-Grid III™ Header, Single Row, Vertical, 9 Circuits, 0.76μm (30μ") Gold (Au) Selective Plating

Documents:

3D Model

Drawing (PDF)

RoHS Certificate of Compliance (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)

9

Circuits (maximum)

9

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)

30

Plating min: Mating (μm)

0.76

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

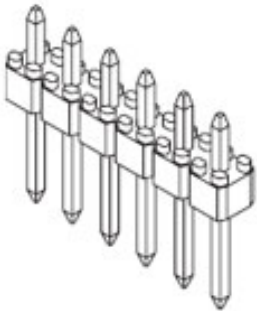
Solder Process Data

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

Not Reviewed

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

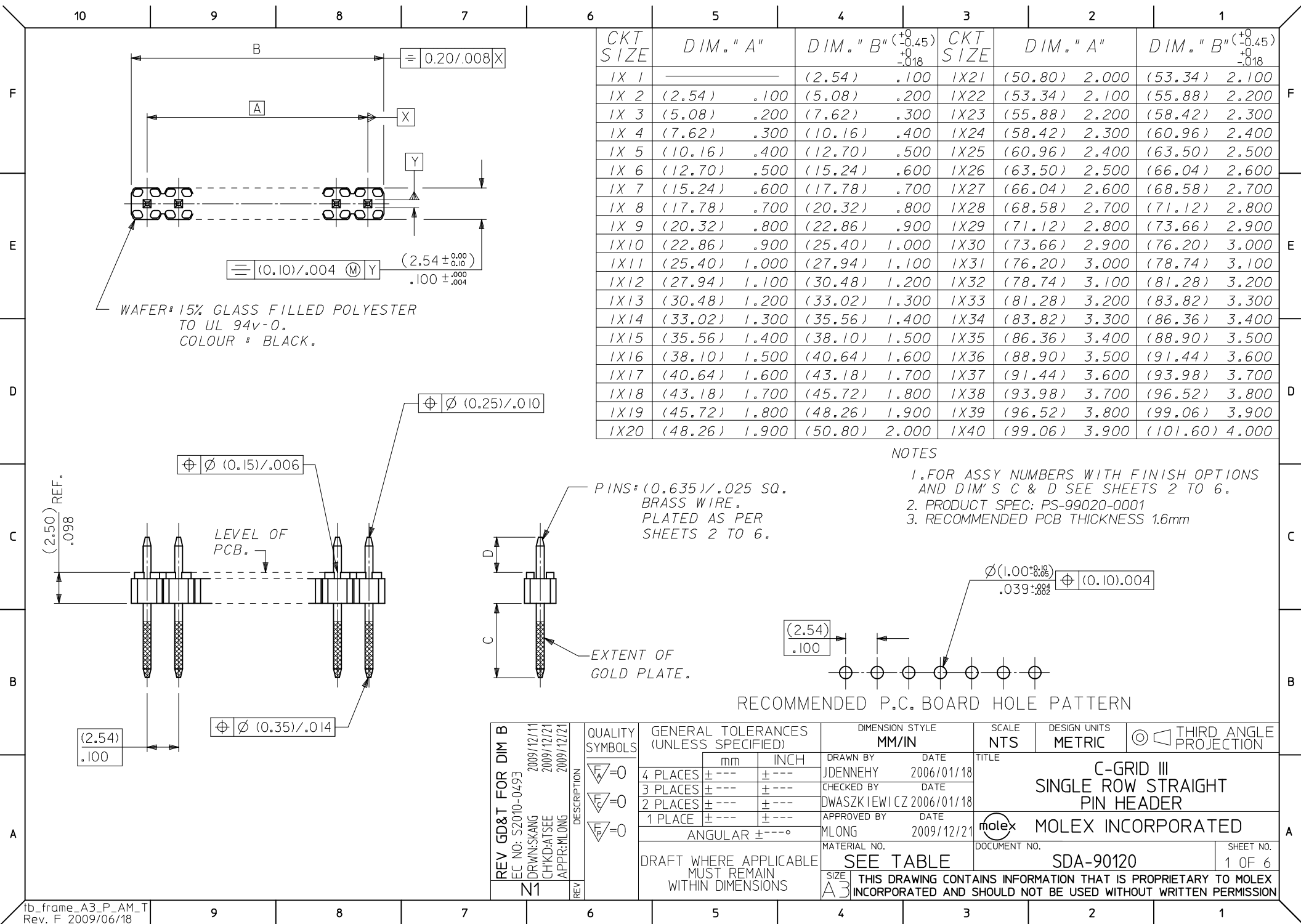
Material Info

Reference - Drawing Numbers

Sales Drawing	SDA-90120
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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						F	
		PART NO.	CUSTOMER SPECIFIC PART NO.	PART NO.	CUSTOMER SPECIFIC PART NO.	PART NO.	CUSTOMER SPECIFIC PART NO.						
E	I X 1	90120-0121	90120-9121	90120-0761	90120-9761	90120-0921	90120-9921					E	
	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						
D	I X 11	↑ -0131	↑ -9131	↑ -0771	↑ -9771	↑ -0931	↑ -9931					D	
	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						
C	I X 21	↑ -0141	↑ -9141	↑ -0781	↑ -9781	↑ -0941	↑ -9941					C	
	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						
B	I X 31	↑ -0151	↑ -9151	↑ -0791	↑ -9791	↑ -0951	↑ -9951					B	
	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						
A	NOTES: FOR PLATING VARIATIONS SEE ENG.STD. SDES-99000-0003.		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 _E =0 F _P =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 DRAWN BY DATE JDENNEHY 2006/01/18 CHECKED BY DATE DWASZKIEWICZ 2006/01/18 APPROVED BY DATE MLONG 2009/12/21	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	C-GRID III SINGLE ROW STRAIGHT PIN HEADER MOLEX INCORPORATED		SHEET NO. 2 OF 6
	STANDARD PRODUCTS		N1				SEE TABLE	DOCUMENT NO. SDA-90120		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
tb_frame_A3_P_AM_T Rev. F 2009/06/18		9	8	7	6	5	4	3	2	1			

	10	9	8	7	6	5	4	3	2	1	
F	DIM C (±0.20) ±.008 (6.75) .266 DIM D (±0.25) ±.010 (4.50) .177	CIRCUIT SIZE	PLATING TYPE A PART NO.	PLATING TYPE E PART NO.	PLATING TYPE F PART NO.						F
I X 1		90120-0161	90120-0801	90120-0961							
I X 2		▲ -0162	▲ -0802	▲ -0962							
I X 3		-0163	-0803	-0963							
I X 4		-0164	-0804	-0964							
I X 5		-0165	-0805	-0965							
I X 6		-0166	-0806	-0966							
I X 7		-0167	-0807	-0967							
I X 8		-0168	-0808	-0968							
I X 9		-0169	-0809	-0969							
I X 10		-0170	-0810	-0970						E	
I X 11		-0171	-0811	-0971							
I X 12		-0172	-0812	-0972							
I X 13		-0173	-0813	-0973							
I X 14		-0174	-0814	-0974							
I X 15		-0175	-0815	-0975							
I X 16		-0176	-0816	-0976							
I X 17		-0177	-0817	-0977							
I X 18		-0178	-0818	-0978							
I X 19		-0179	-0819	-0979							
I X 20		-0180	-0820	-0980						D	
I X 21		-0181	-0821	-0981							
I X 22		-0182	-0822	-0982							
I X 23		-0183	-0823	-0983							
I X 24		-0184	-0824	-0984							
I X 25		-0185	-0825	-0985							
I X 26		-0186	-0826	-0986							
I X 27		-0187	-0827	-0987							
I X 28		-0188	-0828	-0988							
I X 29		-0189	-0829	-0989						C	
I X 30		-0190	-0830	-0990							
I X 31		-0191	-0831	-0991							
I X 32		-0192	-0832	-0992							
I X 33		-0193	-0833	-0993							
I X 34		-0194	-0834	-0994							
I X 35		-0195	-0835	-0995							
I X 36		-0196	-0836	-0996							
I X 37		-0197	-0837	-0997							
I X 38		-0198	-0838	-0998						B	
I X 39		▼ -0199	▼ -0839	▼ -0999							
I X 40	90120-0200	90120-0840	90120-1000								
A	NOTES: FOR PLATING VARIATIONS SEE ENG.STD. SDES-99000-0003.		REV GD&T FOR DIM B EC NO: SZ010-0493 DRWN:SKANG 2009/12/11 CHKD:ATSEE 2009/12/21 APPR:MLONG 2009/12/21 N1		QUALITY SYMBOLS F=0 F=0 F=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 DRAWN BY DATE JDENNEHY 2006/01/18 CHECKED BY DATE DWASZKIEWICZ 2006/01/18 APPROVED BY DATE MLONG 2009/12/21 MATERIAL NO. SIZE A3	SCALE NTS TITLE C-GRID III SINGLE ROW STRAIGHT PIN HEADER MOLEX INCORPORATED SDA-90120	DESIGN UNITS METRIC THIRD ANGLE PROJECTION	SHEET NO. 4 OF 6	
tb_frame_A3_P_AM.T Rev. F 2009/06/18		9	8	7	6	5	4	3	2	1	

10		9		8		7		6		5		4		3		2		1	
F	CIRCUIT SIZE	PLATING TYPE A				PLATING TYPE E				PLATING TYPE F				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							
E	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							
D	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							
C	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	▲ -0160		▲ -9160		▲ -0800		▲ -9800		▲ -0960		▲ -9960							
		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		QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		C-GRID III SINGLE ROW STRAIGHT PIN HEADER						
	STANDARD PRODUCTS					4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ± ---°	DRAWN BY DATE JDENNEHY 2006/01/18 CHECKED BY DATE DWASZKIEWICZ 2006/01/18 APPROVED BY DATE JDENNEHY 2006/01/18	TITLE	MOLEX INCORPORATED		DOCUMENT NO. SDA-90120		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										
	10		9		8		7		6		5		4		3		2		1