

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

**Part Number:** [0010897640](#)  
**Status:** **Active**  
**Description:** 2.54mm (.100") Pitch C-Grid® Breakaway Header, Dual Row, Vertical, High Temperature, 64 Circuits, 0.76µm (30µ") Gold (Au) Selective Plating, Tin (Sn) PC Tail Plating, 2.72mm (.107") PC Tail

**Documents:**

[3D Model](#) [Product Specification PS-70280 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
 UL E29179

**General**

Product Family PCB Headers  
 Series [70280](#)  
 Application Board-to-Board, Wire-to-Board  
 Product Name C-Grid®

**Physical**

Breakaway Yes  
 Circuits (Loaded) 64  
 Circuits (maximum) 64  
 Color - Resin Black  
 Durability (mating cycles max) 50  
 First Mate / Last Break No  
 Flammability 94V-0  
 Glow-Wire Compliant No  
 Guide to Mating Part No  
 Keying to Mating Part None  
 Lock to Mating Part None  
 Material - Metal Copper Alloy  
 Material - Plating Mating Gold  
 Material - Plating Termination Tin  
 Material - Resin High Temperature Thermoplastic  
 Number of Rows 2  
 Orientation Vertical  
 PC Tail Length (in) 0.110 In  
 PC Tail Length (mm) 2.79 mm  
 PCB Locator No  
 PCB Retention None  
 PCB Thickness Recommended (in) 0.062 In  
 PCB Thickness Recommended (mm) 1.60 mm  
 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) 0.75  
 Plating min: Termination (µin) 75  
 Plating min: Termination (µm) 1.875  
 Polarized to Mating Part No  
 Polarized to PCB No  
 Shrouded No  
 Stackable Yes  
 Temperature Range - Operating -40°C to +105°C

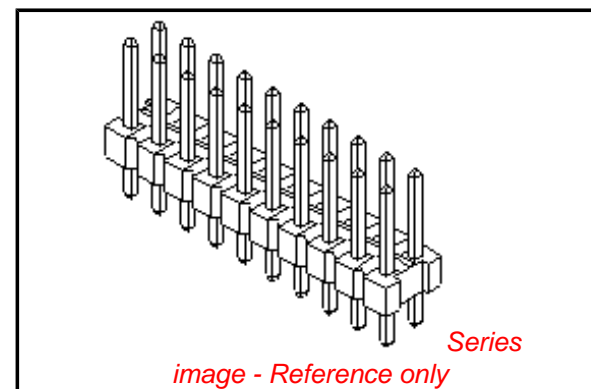


image - Reference only

**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](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**

[70280Series](#)

Termination Interface: Style

Through Hole

**Electrical**

Current - Maximum per Contact

3A

Voltage - Maximum

250V

**Solder Process Data**

Lead-free Process Capability

SMC & Wave Capable (TH only)

Process Temperature max. C

260

**Material Info**

**Reference - Drawing Numbers**

Product Specification

PS-70280

Sales Drawing

SDA-70280-0001-4000

This document was generated on 03/29/2010

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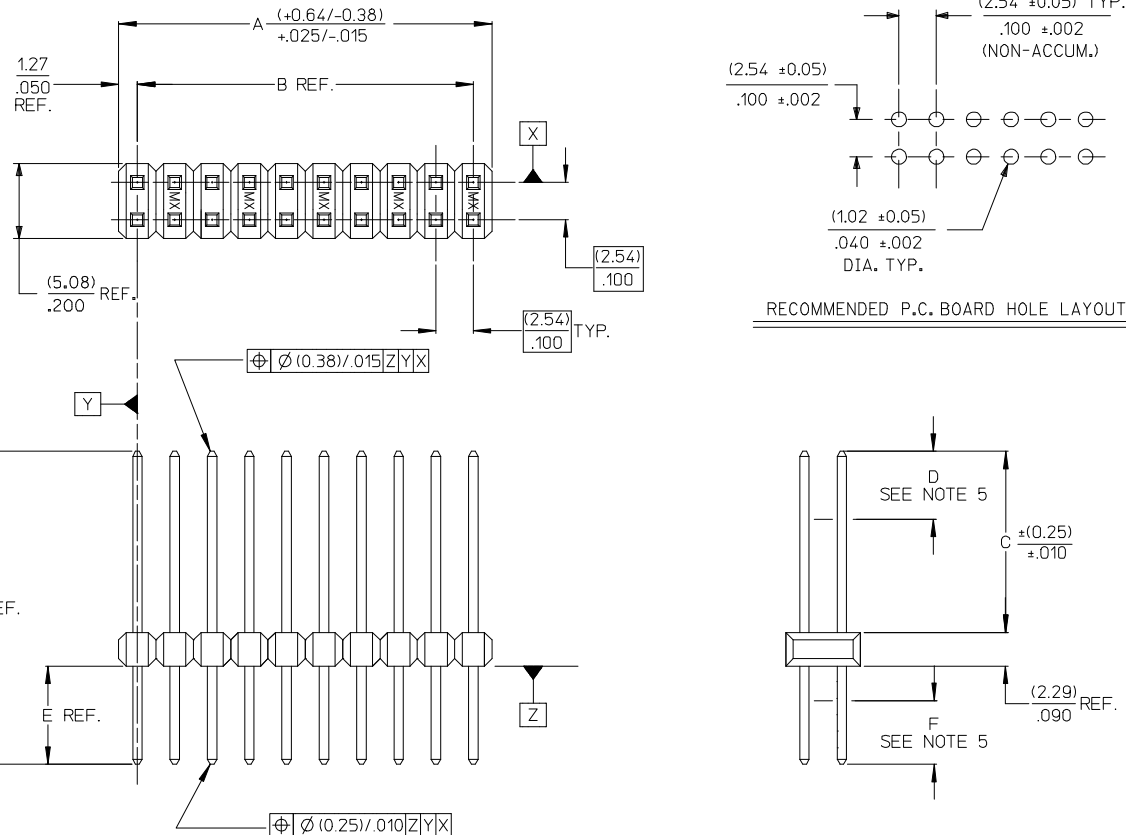
CKT. SIZE	DIM. A REF.		DIM. B REF.		
	(MM)	INCH	(MM)	INCH	
J	4	(5.08)	.200	(2.54)	.100
	6	(7.62)	.300	(5.08)	.200
	8	(10.16)	.400	(7.62)	.300
	10	(12.70)	.500	(10.16)	.400
	12	(15.24)	.600	(12.70)	.500
	14	(17.78)	.700	(15.24)	.600
I	16	(20.32)	.800	(17.78)	.700
	18	(22.86)	.900	(20.32)	.800
	20	(25.40)	1.000	(22.86)	.900
	22	(27.94)	1.100	(25.40)	1.000
	24	(30.48)	1.200	(27.94)	1.100
	26	(33.02)	1.300	(30.48)	1.200
	28	(35.56)	1.400	(33.02)	1.300
H	30	(38.10)	1.500	(35.56)	1.400
	32	(40.64)	1.600	(38.10)	1.500
	34	(43.18)	1.700	(40.64)	1.600
	36	(45.72)	1.800	(43.18)	1.700
	38	(48.26)	1.900	(45.72)	1.800
	40	(50.80)	2.000	(48.26)	1.900
G	42	(53.34)	2.100	(50.80)	2.000
	44	(55.88)	2.200	(53.34)	2.100
	46	(58.42)	2.300	(55.88)	2.200
	48	(60.96)	2.400	(58.42)	2.300
	50	(63.50)	2.500	(60.96)	2.400
	52	(66.04)	2.600	(63.50)	2.500
	54	(68.58)	2.700	(66.04)	2.600
F	56	(71.12)	2.800	(68.58)	2.700
	58	(73.66)	2.900	(71.12)	2.800
	60	(76.20)	3.000	(73.66)	2.900
	62	(78.74)	3.100	(76.20)	3.000
	64	(81.28)	3.200	(78.74)	3.100
	66	(83.82)	3.300	(81.28)	3.200
E	68	(86.36)	3.400	(83.82)	3.300
	70	(88.90)	3.500	(86.36)	3.400
	72	(91.44)	3.600	(88.90)	3.500
	74	(93.98)	3.700	(91.44)	3.600
	76	(96.52)	3.800	(93.98)	3.700
	78	(99.06)	3.900	(96.52)	3.800
D	80	(101.06)	4.000	(99.06)	3.900
	82	(104.14)	4.100	(101.06)	4.000
	84	(106.68)	4.200	(104.14)	4.100
	86	(109.22)	4.300	(106.68)	4.200
	88	(111.76)	4.400	(109.22)	4.300
	90	(114.30)	4.500	(111.76)	4.400
	92	(116.84)	4.600	(114.30)	4.500
C	94	(119.38)	4.700	(116.84)	4.600
	96	(121.92)	4.800	(119.38)	4.700
	98	(124.46)	4.900	(121.92)	4.800
	100	(127.00)	5.000	(124.46)	4.900

**NOTES:**

- MATERIAL:  
PIN: COPPER ALLOY  
WAFER: GLASS FILLED LCP (LIQUID CRYSTAL POLYMER, UL 94V-0, COLOR: BLACK).
- FINISH:  
TIN = (0.00380)/.000150 MINIMUM TIN PLATE OVER (0.00127)/.000050 MINIMUM NICKEL PLATE.  
15 GOLD = (0.00038)/.000015 MINIMUM GOLD PLATE IN SELECT AREA, (0.00190)/.000075 MINIMUM TIN PLATE IN SELECT AREA, OVER (0.00127)/.000050 MINIMUM NICKEL PLATE OVERALL.  
30 GOLD = (0.00076)/.000030 MINIMUM GOLD PLATE IN SELECT AREA, (0.00190)/.000075 MINIMUM TIN PLATE IN SELECT AREA, OVER (0.00127)/.000050 MINIMUM NICKEL PLATE OVERALL.  
GT15 = (0.00038)/.000015 MINIMUM GOLD PLATE IN SELECT AREA, (0.00254)/.000100 MINIMUM TIN PLATE IN SELECT AREA, OVER (0.00127)/.000050 MINIMUM NICKEL PLATE OVERALL.

- PRODUCT SPECIFICATION NONE
- PACKAGING INFORMATION: (UNLESS OTHERWISE NOTED IN TABLES) BULK PACK PER PK-70873-0353.
- MEASURE POINT FOR PLATING THICKNESS.
- FOR ASSEMBLIES WITH VOIDED PINS, REFER TO DRAWING NO. SDA-70280-5001-9999.
- PIN PUSHOUT FORCE 3 POUNDS MINIMUM IN EITHER DIRECTION.
- FOR ILLUSTRATION PURPOSES, 20 (DUAL 10) CIRCUIT SIZE IS SHOWN.
- PINS MEET SOLDERABILITY SPEC SMES-152. ABSENCE OF PLATING PERMISSIBLE AT BANDOLIER PIN FAYING SURFACE. (APPROXIMATELY (0.64)/.025 INCH LONG BY (0.15)/.006 INCH WIDE AT 2 LOCATIONS)
- PARTS CONFORM TO CLASS B OF COSMETIC SPECIFICATION PS-45499-002

\* THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC". CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH LEAD PLATING.



9	G6
8	G5
7	G3
6	G3
5	G3
4	G3
3	G3
2	G3
1	G6
SHT. REV.	

ADD P/N 70280-1254 EC NO: UCP2008-2306 DRWN: JBELL CHKD: LSCHMIDT APPR: FSM/TH	2008/03/31 2008/04/07 2008/04/24	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION
				± mm	± INCH	DRAWN BY SMR	DATE 04/19/1993	TITLE SALES ASSY-HIGH TEMP. DUAL ROW WAFER W/BREAK-OFF OPT. .025 SQ PINS		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				4 PLACES ± --- ± ---		CHECKED BY		DATE		MATERIAL NO. SEE TABLE
				3 PLACES ± --- ± .005		DATE		DOCUMENT NO. SDA-70280-0001-4000		
G6				2 PLACES ± 0.13 ± .01		APPROVED BY SMR			DATE 04/19/1993	
				1 PLACE ± 0.25 ± ---		DATE				
G6				ANGULAR ± 1/2°		APPROVED BY SMR		DATE 04/19/1993		SHEET NO. 1 OF 9
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	13	12	11	10	9	8	7	6	5	4	3	2	1	
J	ENGINEERING NUMBER A-70280-	RELEASE FOR MANUFACTURE			E REF.	J REF.	C ±(0.25) .010		CONNECTOR END PLATING			P.C. BOARD END PLATING		FOR PACKAGING INFORMATION, SEE NOTE 4, SHEET 1 (UNLESS OTHERWISE SPECIFIED BELOW)
									TYPE	D MEAS.		TYPE	F MEAS.	
	-0001/-0040	R.F.M.			(2.72) .107	(11.10) .437	(6.10) .240		TIN	(2.54) .100		TIN	(1.27) .050	
	-0041/-0080	R.F.M.			(2.72) .107	(11.10) .437	(6.10) .240		15 GOLD	(2.54) .100		TIN	(1.27) .050	
I	-0081/-0120	R.F.M.			(2.72) .107	(11.10) .437	(6.10) .240		30 GOLD	(2.54) .100		TIN	(1.27) .050	
	-0121/-0160	R.F.M.			(2.79) .110	(13.21) .520	(8.13) .320		TIN	(4.57) .180		TIN	(1.27) .050	
	-0161/-0200	R.F.M.			(2.79) .110	(13.21) .520	(8.13) .320		15 GOLD	(4.57) .180		TIN	(1.27) .050	
	-0201/-0240	R.F.M.			(2.79) .110	(13.21) .520	(8.13) .320		30 GOLD	(4.57) .180		TIN	(1.27) .050	
H	-0241/-0280	R.F.M.			(3.94) .155	(12.32) .485	(6.10) .240		30 GOLD	(2.54) .100		TIN	(1.27) .050	

CKTS	EDP NUMBER	ENG NUMBER	EDP NUMBER	ENG NUMBER	EDP NUMBER	ENG NUMBER	EDP NUMBER	ENG NUMBER	EDP NUMBER	ENG NUMBER	EDP NUMBER	ENG NUMBER	EDP NUMBER	ENG NUMBER	EDP NUMBER	ENG NUMBER	EDP NUMBER	ENG NUMBER	EDP NUMBER	ENG NUMBER	EDP NUMBER	ENG NUMBER	EDP NUMBER	ENG NUMBER	EDP NUMBER	ENG NUMBER	CKTS	
	N.A.	AX-70280-0001	N.A.	AX-70280-0041	N.A.	AX-70280-0081	N.A.	AX-70280-0121	N/A	AX-70280-0161	N/A	AX-70280-0201	N/A	AX-70280-0241														
04	010-89-7041	A-70280-0002	010-89-7042	A-70280-0042	010-89-7043	A-70280-0082	010-89-7044	A-70280-0122	010-89-7045	A-70280-0162	010-89-7043	A-70280-0202	010-87-9045	A-70280-0242	04													04
06	010-89-7061	A-70280-0003	010-89-7062	A-70280-0043	010-89-7063	A-70280-0083	010-89-7064	A-70280-0123	010-89-7065	A-70280-0163	010-89-7063	A-70280-0203	010-87-9065	A-70280-0243	06													06
08	010-89-7081	A-70280-0004	010-89-7082	A-70280-0044	010-89-7083	A-70280-0084	010-89-7084	A-70280-0124	010-89-7085	A-70280-0164	010-89-7083	A-70280-0204	010-87-9085	A-70280-0244	08													08
10	010-89-7101	A-70280-0005	010-89-7102	A-70280-0045	010-89-7103	A-70280-0085	010-89-7104	A-70280-0125	010-89-7105	A-70280-0165	010-89-7103	A-70280-0205	010-87-9105	A-70280-0245	10													10
12	010-89-7121	A-70280-0006	010-89-7122	A-70280-0046	010-89-7123	A-70280-0086	010-89-7124	A-70280-0126	010-89-7125	A-70280-0166	010-89-7123	A-70280-0206	010-87-9125	A-70280-0246	12													12
14	010-89-7141	A-70280-0007	010-89-7142	A-70280-0047	010-89-7143	A-70280-0087	010-89-7144	A-70280-0127	010-89-7145	A-70280-0167	010-89-7143	A-70280-0207	010-87-9145	A-70280-0247	14													14
16	010-89-7161	A-70280-0008	010-89-7162	A-70280-0048	010-89-7163	A-70280-0088	010-89-7164	A-70280-0128	010-89-7165	A-70280-0168	010-89-7163	A-70280-0208	010-87-9165	A-70280-0248	16													16
18	010-89-7181	A-70280-0009	010-89-7182	A-70280-0049	010-89-7183	A-70280-0089	010-89-7184	A-70280-0129	010-89-7185	A-70280-0169	010-89-7183	A-70280-0209	010-87-9185	A-70280-0249	18													18
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