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ELECTRONICS

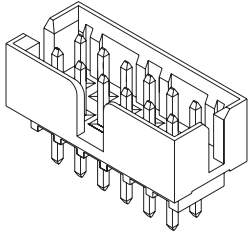
www.Jameco.com ♦ 1-800-831-4242

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Jameco Part Number 1934606

2.00mm (.079") Pitch Milli-Grid™ Header

87831 Shrouded Vertical, SMC



Features and Benefits

- Sizes 4 to 50 circuits
- Fully shrouded to protect pins during mating/unmating
- Center slot for polarization
- Front latches for mechanical locking
- Center polarization slot (6 to 12 circuits); center polarization slot and front latches (14 to 50 circuits)

Reference Information

Product Specification: PS-87831-027
Packaging: Tube (contact Molex for embossed tape)
UL File No.: E29179
CSA File No.: LR19980
Mates With: 50394, 51110 and 87568
Designed In: Millimeters

Electrical

Voltage: 125V
Current: 2.0A
Dielectric Withstanding Voltage: 1000V
Insulation Resistance: 1000 Megohms min.

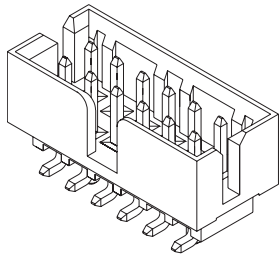
Physical

Housing: Black 4/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: See Table
Operating Temperature: -55 to +105°C

Circuits	Order No.		Lead-free
	15μ" Select Gold	30μ" Select Gold	
4	87831-0420	87831-0421	Yes
6	87831-0620	87831-0621	
8	87831-0820	87831-0821	
10	87831-1020	87831-1021	
12	87831-1220	87831-1221	
14	87831-1420	87831-1421	
16	87831-1620	87831-1621	
18	87831-1820	87831-0621	
20	87831-2020	87831-2021	
22	87831-2220	87831-2221	
24	87831-2420	87831-2421	
26	87831-2620	87831-2621	
Circuits	Order No.		Lead-free
	15μ" Select Gold	30μ" Select Gold	
28	87831-2820	87831-2821	Yes
30	87831-3020	87831-3021	
32	87831-3220	87831-3221	
34	87831-3420	87831-3421	
36	87831-3620	87831-3621	
38	87831-3820	87831-3821	
40	87831-4020	87831-4021	
42	87831-4220	87831-4221	
44	87831-4420	87831-4421	
46	87831-4620	87831-4621	
48	87831-4820	87831-4821	
50	87831-5020	87831-5021	

2.00mm (.079") Pitch Milli-Grid™ Header

87832 Shrouded SMT



Features and Benefits

- Sizes 4 to 50 circuits
- Fully shrouded to protect pins during mating/unmating
- Center slot for polarization
- Front latches for mechanical locking
- Locating pegs for automatic insertion process
- Center polarization slot (6 to 12 circuits); center polarization and front latches (14 to 50 circuits)
- Contact Molex for embossed tape

Reference Information

Product Specification: PS-87831-027
Packaging: Tube (contact Molex for tape and reel)
UL File No.: E29179
CSA File No.: LR19980
Mates With: 50394, 51110 and 87568
Designed In: Millimeters

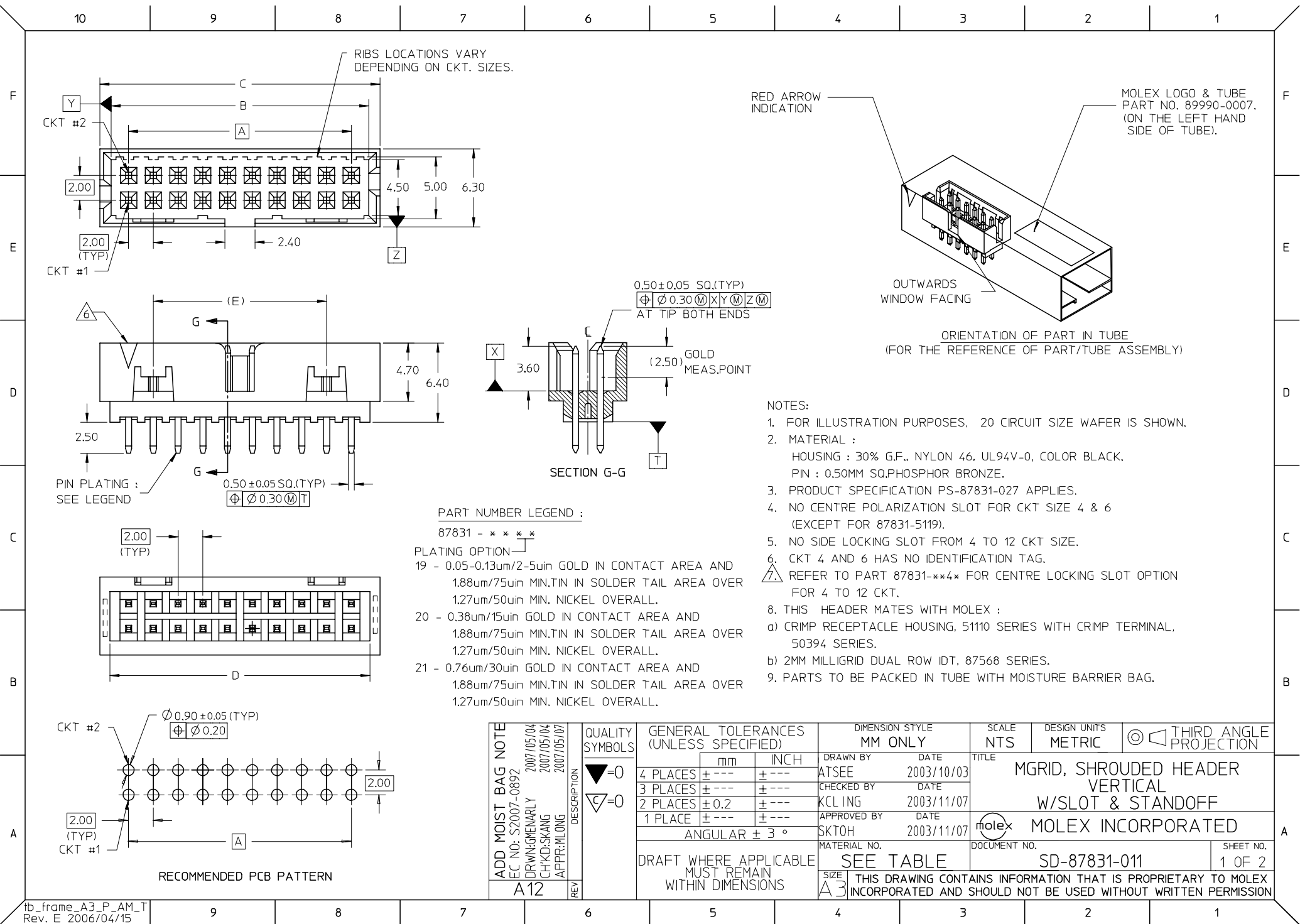
Electrical

Current: 2.0A
Dielectric Withstanding Voltage: 1000V
Insulation Resistance: 1000 Megohms min.

Physical

Housing: Black 4/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: See Table
Operating Temperature: -55 to +105°C

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8	87832-0820	87832-0821	
10	87832-1020	87832-1021	
12	87832-1220	87832-1221	
14	87832-1420	87832-1421	
16	87832-1620	87832-1621	
18	87832-1820	87832-1821	
20	87832-2020	87832-2021	
22	87832-2220	87832-2221	
24	87832-2420	87832-2421	
26	87832-2620	87832-2621	
Circuits	Order No.		Lead-free
	15μ" Select Gold	30μ" Select Gold	
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32	87832-3220	87832-3221	
34	87832-3420	87832-3421	
36	87832-3620	87832-3621	
38	87832-3820	87832-3821	
40	87832-4020	87832-4021	
42	87832-4220	87832-4221	
44	87832-4420	87832-4421	
46	87832-4620	87832-4621	
48	87832-4820	87832-4821	
50	87832-5020	87832-5021	



10			9	8		7	6		5	4	3	2	1																
P/N IN TUBE	CKT SIZE	VOID POSITION	DIMENSION					F	E	D	C	B	A																
			A	B	C	D	E																						
87831-04**	4	-----	2.00	4.85	6.65	5.00	-----	} NO CENTRE POLARIZATION SLOT	F																				
87831-06**	6	-----	4.00	6.85	8.65	7.00	-----																						
87831-08**	8	-----	6.00	8.85	10.65	9.00	-----																						
87831-10**	10	-----	8.00	10.85	12.65	11.00	-----																						
87831-12**	12	-----	10.00	12.85	14.65	13.00	-----																						
87831-14**	14	-----	12.00	14.85	16.65	15.00	8.00																						
87831-16**	16	-----	14.00	16.85	18.65	17.00	10.00																						
87831-18**	18	-----	16.00	18.85	20.65	19.00	12.00																						
87831-20**	20	-----	18.00	20.85	22.65	21.00	14.00																						
87831-22**	22	-----	20.00	22.85	24.65	23.00	16.00																						
87831-24**	24	-----	22.00	24.85	26.65	25.00	18.00																						
87831-26**	26	-----	24.00	26.85	28.65	27.00	20.00	E																					
87831-28**	28	-----	26.00	28.85	30.65	29.00	22.00																						
87831-30**	30	-----	28.00	30.85	32.65	31.00	24.00																						
87831-32**	32	-----	30.00	32.85	34.65	33.00	26.00																						
87831-34**	34	-----	32.00	34.85	36.65	35.00	28.00																						
87831-36**	36	-----	34.00	36.85	38.65	37.00	30.00																						
87831-38**	38	-----	36.00	38.85	40.65	39.00	32.00																						
87831-40**	40	-----	38.00	40.85	42.65	41.00	34.00																						
87831-42**	42	-----	40.00	42.85	44.65	43.00	36.00																						
87831-44**	44	-----	42.00	44.85	46.65	45.00	38.00																						
87831-46**	46	-----	44.00	46.85	48.65	47.00	40.00	D																					
87831-48**	48	-----	46.00	48.85	50.65	49.00	42.00																						
87831-50**	50	-----	48.00	50.85	52.65	51.00	44.00																						
87831-5120	12	1	10.00	12.85	14.65	13.00	-----																						
87831-5220	44	20	42.00	44.85	46.65	45.00	38.00																						
87831-5320	24	13	22.00	24.85	26.65	25.00	18.00																						
87831-5420	34	3	32.00	34.85	36.65	35.00	28.00																						
87831-5520	20	20	18.00	20.85	22.65	21.00	14.00																						
87831-5620	28	13	26.00	28.85	30.65	29.00	22.00																						
87831-5119	6	-----	4.00	6.85	8.65	7.00	-----																						
87831-5720	34	15	32.00	34.85	36.65	35.00	28.00	C																					
87831-5820	40	25	38.00	40.85	42.65	41.00	34.00																						
													B																
								A																					
								ADD MOIST BAG NOTE		QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE MGRID, SHROUDED HEADER VERTICAL W/SLOT & STANDOFF	MOLEX INCORPORATED	SHEET NO. 2 OF 2											
								EC NO: S2007-0892											DRAWN: GNEARLY		DATE: 2007/05/04		CHKD: SKANG		DATE: 2007/05/07		APPR: MLONG		
								A12		REV		DESCRIPTION		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
ib_frame_A3_P_AM_T			9			8			7			6			5			4			3			2			1		
Rev. E 2006/04/15																													

ADD MOIST BAG NOTE
EC NO: S2007-0892
DRWN:GMENARLY
CHKD:SKANG
APPR:MLONG

2007/05/04
2007/05/04
2007/05/07

REV

A12

QUALITY SYMBOLS

▽=0

▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.2	± ---
1 PLACE	± ---	± ---

ANGULAR ± 3 °

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY	DATE
ATSEE	2003/10/03
CHECKED BY	DATE
KCL ING	2003/11/07
APPROVED BY	DATE
SKTOH	2003/11/07

MATERIAL NO.

SEE TABLE

SIZE
A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SCALE
NTS

DESIGN UNITS
METRIC

THIRD ANGLE PROJECTION

TITLE

MGRID, SHROUDED HEADER
VERTICAL
W/SLOT & STANDOFF

MOLEX

MOLEX INCORPORATED

DOCUMENT NO.

SD-87831-011

SHEET NO.

2 OF 2