



**PART NUMBER LEGEND :**  
 87831 - \* \* \* \* \*  
 PLATING OPTION  
 19 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.  
 20 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.  
 21 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.

- NOTES:**
- FOR ILLUSTRATION PURPOSES, 20 CIRCUIT SIZE WAFER IS SHOWN.
  - MATERIAL :  
 HOUSING : 30% G.F., NYLON 46, UL94V-0, COLOR BLACK.  
 PIN : 0.50MM SQ.PHOSPHOR BRONZE.
  - PRODUCT SPECIFICATION PS-87831-027 APPLIES.
  - NO CENTRE POLARIZATION SLOT FOR CKT SIZE 4 & 6 (EXCEPT FOR 87831-5119).
  - NO SIDE LOCKING SLOT FROM 4 TO 12 CKT SIZE.
  - CKT 4 AND 6 HAS NO IDENTIFICATION TAG.  
 REFER TO PART 87831-\*\*\*4\* FOR CENTRE LOCKING SLOT OPTION FOR 4 TO 12 CKT.
  - THIS HEADER MATES WITH MOLEX :  
 a) CRIMP RECEPTACLE HOUSING, 51110 SERIES WITH CRIMP TERMINAL, 50394 SERIES.  
 b) 2MM MILLIGRID DUAL ROW IDT, 87568 SERIES.
  - PARTS TO BE PACKED IN TUBE WITH MOISTURE BARRIER BAG.

REVISED ELC NO: S2009-0559 DRWNSKANG CHYKATSEE APPR:MLONG 2009/02/23 2009/02/23 2009/02/23	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION																	
		<table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>± .005</td> <td>± .0004</td> </tr> <tr> <td>3 PLACES</td> <td>± .008</td> <td>± .0006</td> </tr> <tr> <td>2 PLACES</td> <td>± .015</td> <td>± .0012</td> </tr> <tr> <td>1 PLACE</td> <td>± .030</td> <td>± .0024</td> </tr> </table>			mm	INCH	4 PLACES	± .005	± .0004	3 PLACES	± .008	± .0006	2 PLACES	± .015	± .0012	1 PLACE	± .030	± .0024	DRAWN BY ATSEE DATE 2003/10/03		TITLE MGRID, SHROUDED HEADER VERTICAL W/SLOT & STANDOFF		MOLEX INCORPORATED		SHEET NO. 1 OF 2
			mm	INCH																					
		4 PLACES	± .005	± .0004																					
3 PLACES	± .008	± .0006																							
2 PLACES	± .015	± .0012																							
1 PLACE	± .030	± .0024																							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY SKTOH DATE 2003/11/07		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87831-011		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
A14		SIZE A3		SEE TABLE		SEE TABLE		SEE TABLE																	

P/N IN TUBE	CKT SIZE	VOID POSITION	DIMENSION				
			A	B	C	D	E
87831-04**	4	-----	2.00	4.85	6.65	5.00	-----
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
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
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
87831-5820	40	25	38.00	40.85	42.65	41.00	34.00
87831-5920	20	13	18.00	20.85	22.65	21.00	14.00
87831-6020	24	20	22.00	24.85	26.65	25.00	18.00

} NO CENTRE POLARIZATION SLOT

REVISED EEC NO: S2009-0559 DRWNSKANG CHYKATSEE APPR:MLONG 2009/02/23 2009/02/23 2009/02/23	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$\nabla=0$ $\nabla=0$	mm INCH	MM ONLY	NTS	METRIC	
		4 PLACES ± --- ± ---	DRAWN BY DATE	TITLE		
		3 PLACES ± --- ± ---	ATSEE 2003/10/03	MGRID, SHROUDED HEADER VERTICAL		
		2 PLACES ± 0.2 ± ---	CHECKED BY DATE	W/SLOT & STANDOFF		
	1 PLACE ± --- ± ---	KCLING 2003/11/07	MOLEX INCORPORATED			
	ANGULAR ± 3°	APPROVED BY DATE	MOLEX INCORPORATED			
		SKTOH 2003/11/07	MOLEX INCORPORATED			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO.	DOCUMENT NO.		SHEET NO.	
		SEE TABLE	SD-87831-011		2 OF 2	
		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			