



Distributor of Molex Connector Corporation: Excellent Integrated System Limited
Datasheet of 0873811273 - Connector Receptacle 12 Position 0.079" (2.00mm) Gold Surface Mount

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

Excellent Integrated System Limited

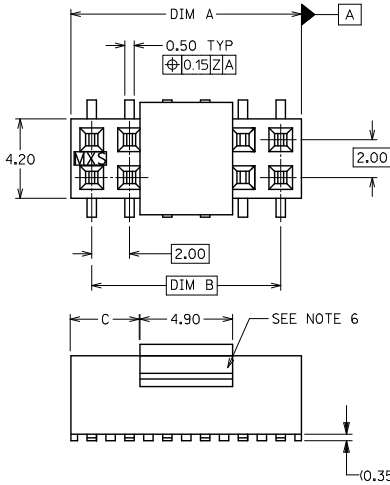
Stocking Distributor

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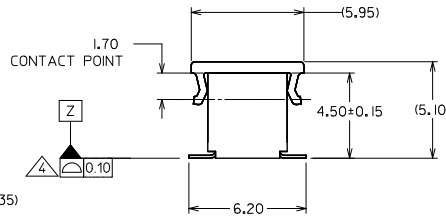
PART NO. LEGEND
FOR TUBE PACKAGING ONLY

87381 - * * * *

CIRCUIT SIZE PLATING (SEE NOTE 1)

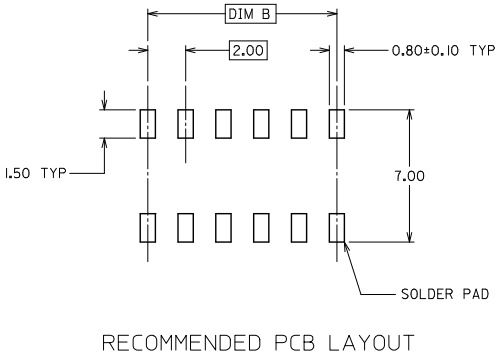
3
4
5

6 COVER
7 NO COVER



NOTES:

- PLATING FINISH:
 - 3 - 0.76um MIN. GOLD IN CONTACT AREA 1.27um MIN. TIN IN SOLDER TAIL AREA BOTH OVER 1.27um MIN. NICKEL OVERALL
 - 4 - 0.38um MIN. GOLD IN CONTACT AREA 1.27um MIN. TIN IN SOLDER TAIL AREA BOTH OVER 1.27um MIN. NICKEL OVERALL
 - 5 - 0.05um MIN. GOLD FLASH IN CONTACT AREA 1.90um MIN. TIN IN SOLDER TAIL AREA BOTH OVER 1.27um MIN. NICKEL OVERALL
- 12 CKT SIZE SHOWN FOR ASSY ILLUSTRATION ONLY. (SEE CHART FOR ALL PART SIZES). 6 CKT & 30 CKT ILLUSTRATED FOR TAPE/REEL VERSION ON SHT 2.
- PRODUCT SPECIFICATION PS-87380 APPLIES. COPLANARITY OF SOLDER TAILS ARE TO BE MEASURED BY RESTING THE PART ON A FLAT GAUGE SURFACE ↑+0.05 UPWARDS AND ↓-0.05 DOWNWARDS.
- TUBE PACKAGING STANDARD.
- COVER IS OPTIONAL. SEE LEGEND.
- PARTS SHALL BE PACKED IN MOISTURE BARRIER BAG.
- REFER SHT 3 FOR P/N: 87381-6000 T&R ILLUSTRATION.

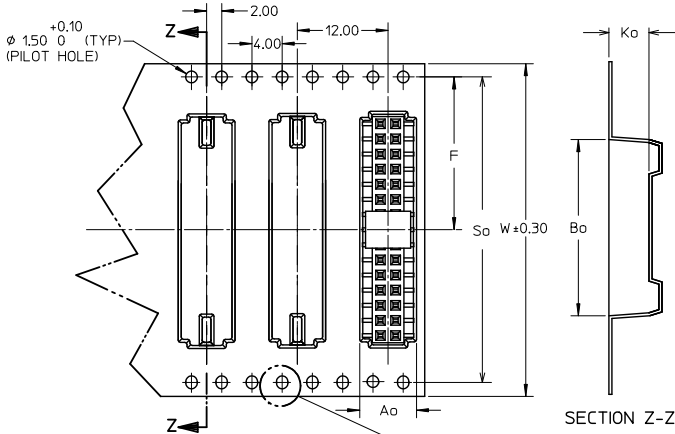


RECOMMENDED PCB LAYOUT

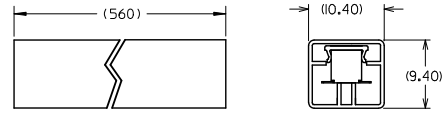
REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
			mm	INCH	MM ONLY	DATE			
4	PLACES	±---	±---		DRAWN BY	DATE	TITLE		
3	PLACES	±---	±---		CHECKED BY	DATE			
2	PLACES	±0.20	±---		LCHANG	1999/04/23			
1	PLACE	±---	±---		APPROVED BY	DATE			
				ANGULAR ± 3°	SQUEK	1999/04/26			
					MATERIAL NO.				
					SEE TABLE				
					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

PART NUMBER	CKT. SIZE	DIM A	DIM B	DIM C
87381-06**	6	6.00	4.00	0.55
87381-08**	8	8.00	6.00	1.55
87381-10**	10	10.00	8.00	2.55
87381-12**	12	12.00	10.00	3.55
87381-14**	14	14.00	12.00	4.55
87381-16**	16	16.00	14.00	5.55
87381-18**	18	18.00	16.00	6.55
87381-20**	20	20.00	18.00	7.55
87381-22**	22	22.00	20.00	8.55
87381-24**	24	24.00	22.00	9.55
87381-26**	26	26.00	24.00	10.55
87381-28**	28	28.00	26.00	11.55
87381-30**	30	30.00	28.00	12.55
87381-32**	32	32.00	30.00	13.55
87381-34**	34	34.00	32.00	14.55
87381-36**	36	36.00	34.00	15.55
87381-38**	38	38.00	36.00	16.55
87381-40**	40	40.00	38.00	17.55
87381-42**	42	42.00	40.00	18.55
87381-44**	44	44.00	42.00	19.55
87381-46**	46	46.00	44.00	20.55
87381-48**	48	48.00	46.00	21.55
87381-50**	50	50.00	48.00	22.55

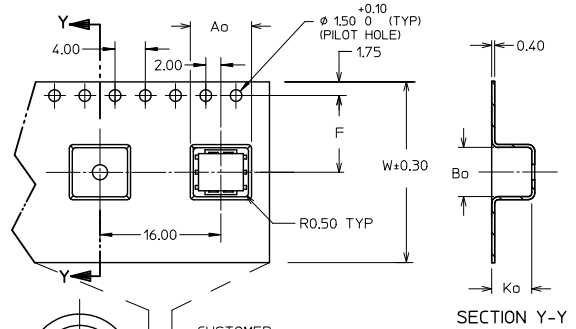
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CONNECTOR ORIENTATION
IN TUBE



SECTION Z-Z



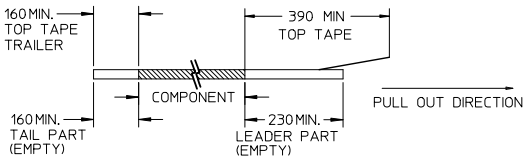
SECTION Y-Y

30 CKT FOR ILLUSTRATION ONLY
TAPE & REEL TYPE 'B'

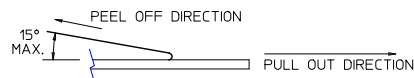
6 CKT FOR ILLUSTRATION ONLY
TAPE & REEL TYPE 'A'

NOTES:

1. LEADER AND TRAILER TAPE



2. PEELING OFF FORCE OF THE TOP TAPE: 20-80gf.
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



3. PACKAGING STANDARD IS AS PER EIA-481.

4. TAPE & REEL QUANTITY = SEE TABLE

REVISE NOTE 4. EC NO. S2012-0026 DRAWN BY: DRWNSKANG CHKD/ATSEE: 2011/08/03 APPR: HLONG 2011/08/03	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION MGRID, TOP ENTRY RECEPT. 4.50MM HT., SMT MOLEX INCORPORATED DOCUMENT NO. SD-87381-***6* SHEET NO. 2 OF 4
	$\sqrt{\text{A}}=0$ $\sqrt{\text{B}}=0$ $\sqrt{\text{C}}=0$	mm	INCH	MM ONLY		NTS	METRIC	
		4 PLACES ± ---	± ---	DRAWN BY	DATE	TITLE		
		3 PLACES ± ---	± ---	JAMES	1998/01/08	MGRID, TOP ENTRY RECEPT. 4.50MM HT., SMT		
	2 PLACES ± 0.20	± ---	CHECKED BY	DATE	MATERIAL NO.			
	1 PLACE ± ---	± ---	LCHANG	1999/04/23	SEE TABLE			
	ANGULAR ± 3°		APPROVED BY	DATE	MATERIAL NO.			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SOUK	1999/04/26	SEE TABLE			
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SIZE	A3				

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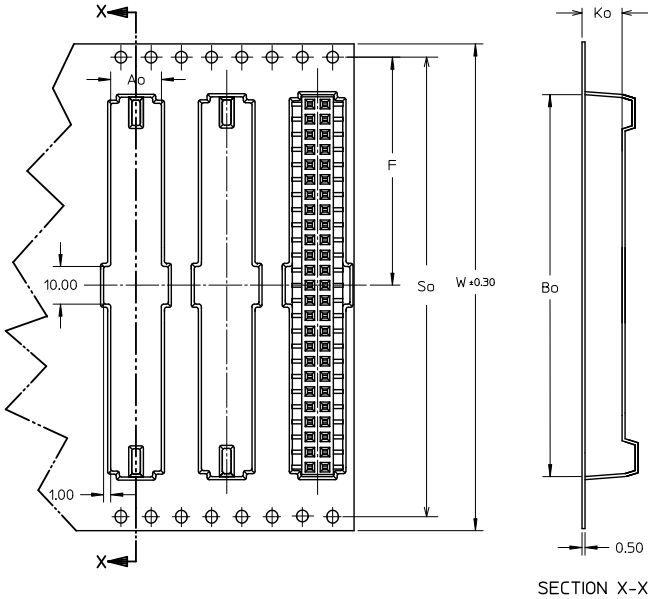
10	9	8	7	6	5	4	3	2	1	
CKT SIZE	PART NO. WITH CAP IN TUBE	PART NO. WITH CAP IN TAPE / REEL	W	So	Ao	F	Bo	Ko	T&R TYPE (SHT 2)	T&R QTY PER REEL
6	87381-0664	87381-9002	24	-	7.00	11.50	6.50	5.30	A	500
8	87381-0864	87381-9003	24	-	7.00	11.50	8.50	5.30	A	600
10	87381-1064	87381-9005	24	-	7.00	11.50	10.50	5.30	A	680
14	87381-1464	87381-9006	32	28.40	7.20	14.20	14.50	5.30	B	750
16	87381-1664	87381-9004	32	28.40	7.20	14.20	16.50	5.30	B	800
18	87381-1864	87381-1800	32	28.40	7.20	14.20	18.50	5.30	B	750
20	87381-2063	87381-2000	32	28.40	7.20	14.20	20.50	5.30	B	800
22	87381-2264	87381-2200	44	40.40	7.20	20.20	22.50	5.30	B	500
30	87381-3064	87381-3000	44	40.40	7.20	20.20	30.50	5.30	B	500
32	87381-3264	87381-3200	44	40.40	7.20	20.20	32.50	5.30	B	500
34	87381-3464	87381-3400	56	52.40	7.20	26.20	34.50	5.30	B	500
44	87381-4464	87381-4400	56	52.40	7.20	26.20	44.50	5.30	B	500
46	87381-4664	87381-4600	72	68.40	7.20	34.20	46.50	5.30	B	750
50	87381-5063	87381-5030	72	68.40	7.20	34.20	50.50	5.30	B	500
50	87381-5064	87381-5000	72	68.40	7.20	34.20	50.50	5.30	B	500

REVISE NOTE 4. EC NO: S2012-0026 DRAWN: KANG CHKD: ATSEE APPR: HLONG 2011/07/29 2011/08/03 2011/08/03	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	DESCRIPTION	mm INCH	MM ONLY	NTS	METRIC	
	▽=0	4 PLACES ± --- ± ---	DRAWN BY DATE	TITLE		
	▽=0	3 PLACES ± --- ± ---	JAMES 1998/01/08	MGRID, TOP ENTRY RECEPT. 4.50MM HT., SMT		
▽=0	2 PLACES ± 0.20 ± ---	CHECKED BY DATE	MOLEX INCORPORATED			
	1 PLACE ± --- ± ---	LCHANG 1999/04/23	DOCUMENT NO.			
	ANGULAR ± 3 °	APPROVED BY DATE	SD-87381-***6*			
		SOUEK 1999/04/26	SHEET NO.			
		MATERIAL NO.	3 OF 4			
		SEE TABLE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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CKT SIZE	PART NO. WITHOUT CAP IN TUBE	PART NO. WITHOUT CAP IN TAPE / REEL	W	So	Ao	F	Bo	Ko	T&R TYPE (SHT 2)	T&R QTY PER REEL
50	87381-5074	87381-6000	72	68.40	6.80	34.20	50.50	8.00	B	500

ILLUSTRATION FOR P/N: 87381-6000
50 CKT IN T&R W/O CAP



SECTION X-X

REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
			mm	INCH	MM ONLY	DATE			
E11	REVISE NOTE 4. EC. NO. S2012-0026 DRAWN:KANG CHKD:ATSEE APPR:MLONG	$\sqrt{\text{A}}=0$ $\sqrt{\text{B}}=0$ $\sqrt{\text{C}}=0$	4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3 °	DRAWN BY: JAMES CHECKED BY: LCHANG APPROVED BY: SQUEK	DATE: 2011/07/29 DATE: 2011/08/03 DATE: 2011/08/03 DATE: 1998/01/08 DATE: 1999/04/23 DATE: 1999/04/26	TITLE: MGRID, TOP ENTRY RECEPT. 4.50MM HT., SMT MOLEX INCORPORATED DOCUMENT NO.: SD-87381-***6* SHEET NO.: 4 OF 4	NTS METRIC THIRD ANGLE PROJECTION	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	