

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 24 circuits
- Molded in high temperature, surface mount compatible material
- Fully isolated terminals to protect contacts from damage

Reference Information

Product Specification: PS-87427-0001

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: [5557](#) dual row receptacle

Designed in: Millimeters

Electrical

Voltage: 600V

Current: (Used with 16 AWG)

Circuits	2-3	4-6	7-10	12-24
Amperes-Jr.	9	8	7	6
Amperes-HCS	12	11	10	9

Contact Resistance: 10mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Pin Retention Force: 9.81N (2.2 lb) min.

Mating Force: 14.23N (3.19 lb) max.

Unmating Force: 0.50N (0.11 lb) max.

Durability: 30 cycles

Physical

Housing: Nylon 4/6, UL 94V-0

Contact: Brass (1.07 square)

Plating: Tin

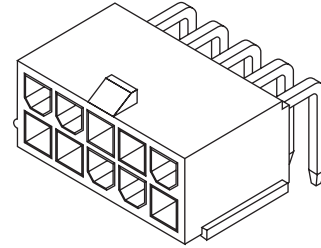
Operating Temperature: -40 to +105°C



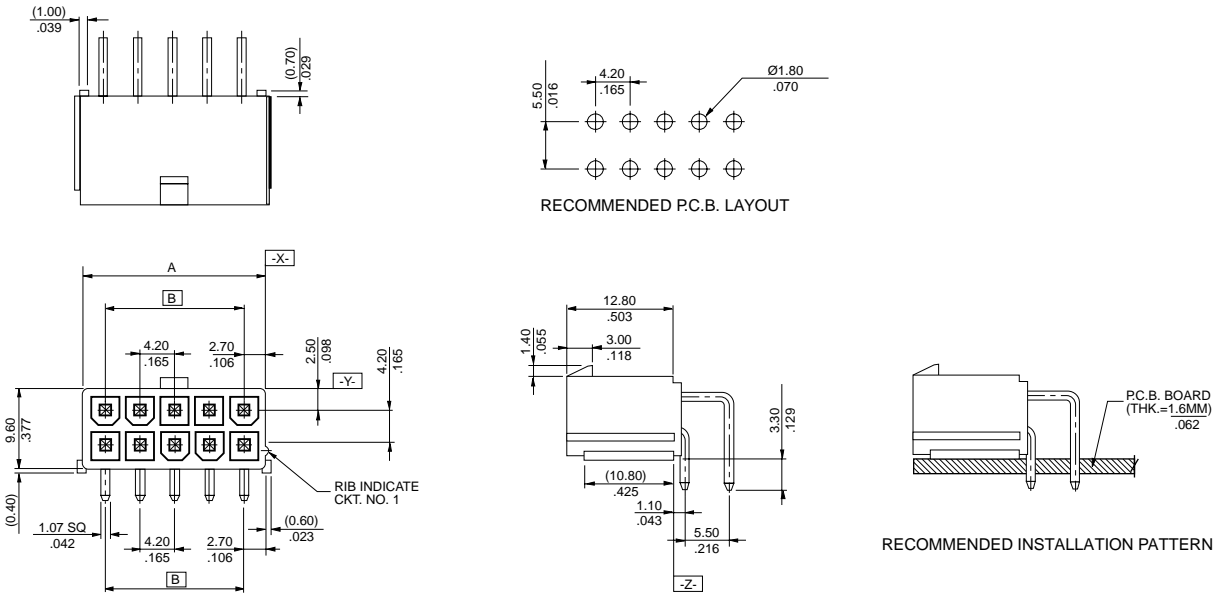
4.20mm (.165") Pitch Mini-Fit, Jr.™ Wire-to-Board Header

87427

Right Angle without Flanges High Temperature Material



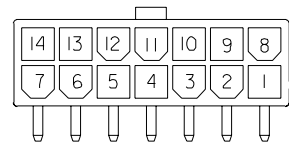
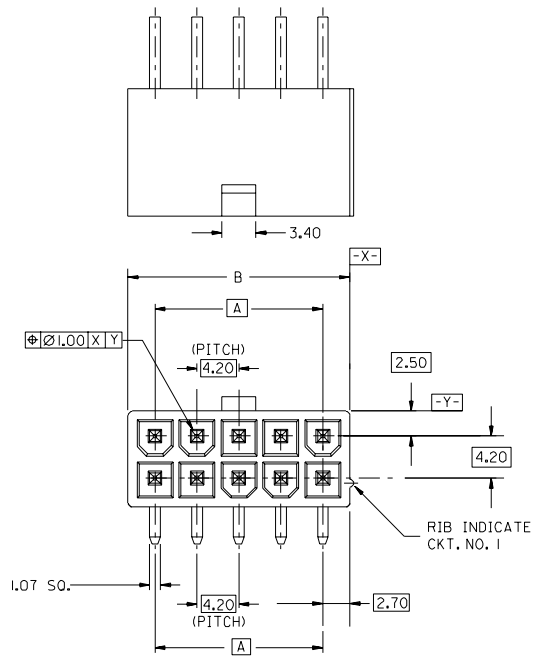
CATALOG DRAWING (FOR REFERENCE ONLY)



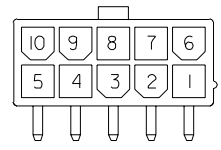
ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	Tin Over Nickel Plating	Tin Over Copper Plating	A	B
2	87427-0202	87427-0203	5.40 (.212)	
4	87427-0402	87427-0403	9.60 (.377)	4.20 (.165)
6	87427-0602	87427-0603	13.80 (.543)	8.40 (.330)
8	87427-0802	87427-0803	18.00 (.708)	12.60 (.496)
10	87427-1002	87427-1003	22.20 (.824)	16.80 (.667)
12	87427-1202	87427-1203	26.40 (1.030)	21.00 (.826)
14	87427-1402	87427-1403	30.60 (1.204)	25.20 (.992)
16	87427-1602	87427-1603	34.80 (1.370)	29.40 (1.152)
18	87427-1802	87427-1803	39.00 (1.535)	33.60 (1.324)
20	87427-2002	87427-2003	43.20 (1.700)	37.80 (1.488)
22	87427-2202	87427-2203	47.40 (1.866)	42.00 (1.653)
24	87427-2402	87427-2403	51.60 (2.031)	46.20 (1.818)

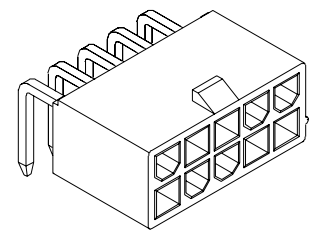
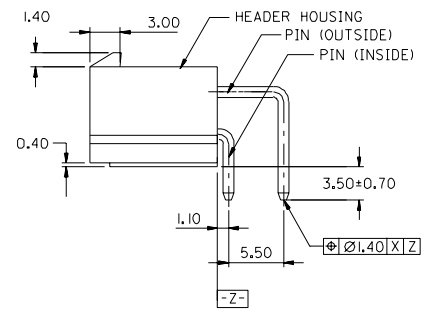
DWG. NO. SD 87427-**-2*
 CAD FILE 87427SO I.DGN
 DO NOT SCALE DRAWING



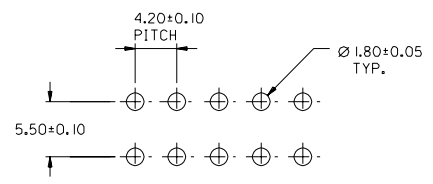
CKT. SIZE 14



CKT. SIZE 10



ISOMETRIC VIEW



RECOMMENDED P.C.B. LAYOUT

NOTES

- 1. MATERIAL - HEADER : NYLON 46, UL94V-0, COLOR BEIGE
 PIN : BRASS (1.07 SQUARE)
- 2. PLATING OF PIN
 TIN 2.54um MIN. OVER NICKEL 1.27um MIN.
- 3. PLATING OF PIN
 TIN 4-10um OVER COPPER 2-8um.

LEGEND

- 87427-**-2*
 CKT. SIZE (10 AND 14)
 PLATING OPTIONS
 2 = NOTE 2
 3 = NOTE 3

30.60	25.20	87427-142*	14
22.20	16.80	87427-102*	10
B	A	ENG. NO.	CKT SIZE

				MATERIAL : SEE NOTES		MOLEX SINGAPORE PTE LTD SHEET 1 OF 1	
				FINISH : SEE NOTES			
A	RELEASE PER ECN S2000-0221	-	SHAN	991122	DRAWN BY 991122 REGINA SHAN		DWG. NO.: SD 87427-**-2*
LTR	REVISION RECORD	ECN	DR	CHK	DATE	APPR'D BY	TITLE : 4.20MM W-T-B, HIGH TEMP. RIGHT ANGLE HEADER.
REVISE ONLY ON CAD SYSTEM						SCALE 2 : 1	

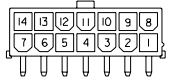
DWG. NO. SD 87427-**-0*

CAD FILE S87427B2.DGN

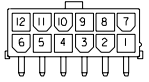
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DO NOT SCALE DRAWING

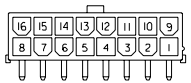
8 7 6 5 4 3 2 1



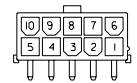
CKT. SIZE 14



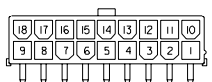
CKT. SIZE 12



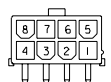
CKT. SIZE 16



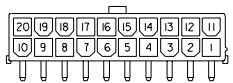
CKT. SIZE 10



CKT. SIZE 18



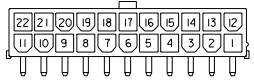
CKT. SIZE 8



CKT. SIZE 20



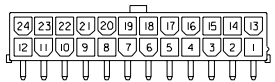
CKT. SIZE 6



CKT. SIZE 22



CKT. SIZE 4



CKT. SIZE 24



CKT. SIZE 2

51.60	46.20	87427-240*	87427-245*	24
47.40	42.00	87427-220*	87427-225*	22
43.20	37.80	87427-200*	87427-205*	20
39.00	33.60	87427-180*	87427-185*	18
34.80	29.40	87427-160*	87427-165*	16
30.60	25.20	87427-140*	87427-145*	14
26.40	21.00	87427-120*	87427-125*	12
22.20	16.80	87427-100*	87427-105*	10
18.00	12.60	87427-080*	87427-085*	8
13.80	8.40	87427-060*	87427-065*	6
9.60	4.20	87427-040*	87427-045*	4
5.40	--	87427-020*	87427-025*	2
B	A	ENG. NO. SHEET PACKED	ENG. NO. TRAY PACKED	CKT. SIZE

MATERIAL :		SEE NOTES AT SHT 1		MOLEX SINGAPORE PTE LTD SHEET 2 OF 2	
FINISH :		SEE NOTES AT SHT 1		GENERAL TOLERANCES ± 0.20/0.008 REV B	
B	REVISE PER ECN S1999-0098	SHAN	980909	DWG. NO.: SD 87427-**-0*	
A	ADD NEW CIRCUIT SIZES	S60378	SAM SO 960415	TITLE : 4.2MM W-T-B, HIGH TEMP. RIGHT ANGLE HEADER. (W/O MOUNTING FLANGES)	
LTR	REVISION RECORD	ECN	DR	CHK	DATE
REVISE ONLY ON CAD SYSTEM			DRAWN BY	SAMC	CHK'D BY
			APPR'D BY	SCALE	1:1

ALL DIMENSIONS IN MM

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