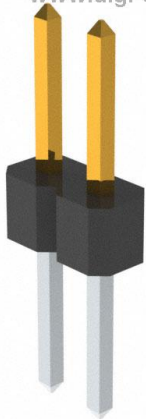


PBC02SABN Datasheet

www.digi-electronics.com




<https://www.DiGi-Electronics.com>

| | |
|------------------------------|---|
| DiGi Electronics Part Number | PBC02SABN-DG |
| Manufacturer | Sullins Connector Solutions |
| Manufacturer Product Number | PBC02SABN |
| Description | CONN HEADER VERT 2POS 2.54MM |
| Detailed Description | Connector Header Through Hole 2 position 0.100" (2.54mm) |

This model PBC02SABN is available at DiGi Electronics.

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RFQ Email: Info@DiGi-Electronics.com

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Purchase and inquiry

Manufacturer Product Number:

PBC02SABN

Series:

-

Connector Type:

Header, Breakaway

Pitch - Mating:

0.100" (2.54mm)

Number of Rows:

1

Number of Positions Loaded:

All

Shrouding:

Unshrouded

Termination:

Solder

Contact Length - Mating:

0.230" (5.84mm)

Overall Contact Length:

0.560" (14.22mm)

Contact Shape:

Square

Contact Finish Thickness - Mating:

10.0µin (0.25µm)

Contact Material:

Phosphor Bronze

Features:

-

Ingress Protection:

-

Insulation Color:

Black

Voltage Rating:

-

Contact Finish Thickness - Post:

100.0µin (2.54µm)

Base Product Number:

PBC02

Manufacturer:

Sullins Connector Solutions

Product Status:

Active

Contact Type:

Male Pin

Number of Positions:

2

Row Spacing - Mating:

-

Style:

Board to Board or Cable

Mounting Type:

Through Hole

Fastening Type:

Push-Pull

Contact Length - Post:

0.230" (5.84mm)

Insulation Height:

0.100" (2.54mm)

Contact Finish - Mating:

Gold

Contact Finish - Post:

Tin

Insulation Material:

Polybutylene Terephthalate (PBT)

Operating Temperature:

-65°C ~ 125°C

Material Flammability Rating:

UL94 V-0

Current Rating (Amps):

3A

Mated Stacking Heights:

-

Applications:

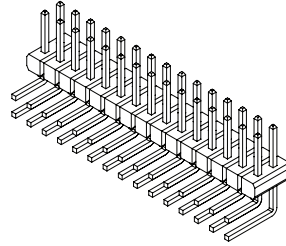
-



.100" [2.54 mm] Contact Centers, Male Breakaway Headers, Straight/Right Angle/SMT

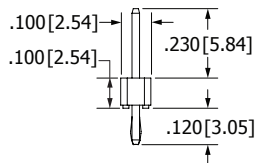
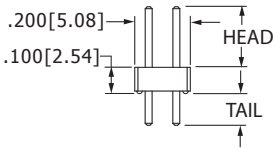
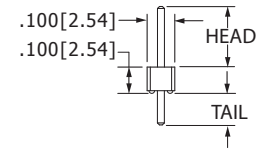
SPECIFICATIONS

- 3 Amps current rating
- UL Flammability Rating: 94V-0
- Insulator: PBT, PA9T, PPS, PEEK
- Contact Material: Phosphor Bronze
- See jumpers section for options available
- Consult Factory for PCB Layout



TERMINATION TYPES

STRAIGHT TERMINATIONS



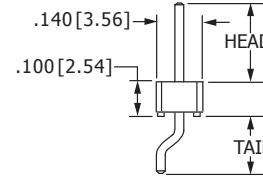
RETENTION LEAD MOUNTING
(EXAMPLE P/N: PBC365AAR)

| P/N CODE | HEAD | TAIL |
|----------|---------------|---------------|
| AA | .230 [5.84] | .120 [3.05] |
| AB | .230 [5.84] | .230 [5.84] |
| AC | .230 [5.84] | .320 [8.13] |
| AD | .230 [5.84] | .420 [10.67] |
| AE | .23 [5.84] | .520 [13.21] |
| AF | .230 [5.84] | .620 [15.75] |
| AG | .230 [5.84] | .720 [18.29] |
| AH | .230 [5.84] | .820 [20.83] |
| AI* | .230 [5.84] | .900 [22.86] |
| AJ* | .230 [5.84] | 1.000 [25.40] |
| AK* | .230 [5.84] | .035 [0.89] |
| FA | .318 [8.08] | .120 [3.05] |
| FB | .318 [8.08] | .220 [5.59] |
| FC | .318 [8.08] | .320 [8.13] |
| FD | .318 [8.08] | .420 [10.67] |
| FE | .318 [8.08] | .520 [13.21] |
| FF* | .318 [8.08] | .620 [15.75] |
| FG* | .318 [8.08] | .710 [18.03] |
| FH* | .318 [8.08] | .810 [20.57] |
| FI* | .318 [8.08] | .910 [23.11] |
| FJ* | .318 [8.08] | .050 [1.27] |
| ZA | .120 [3.05] | .120 [3.05] |
| ZB* | .120 [3.05] | .095 [2.41] |
| ZC | .120 [3.05] | .260 [6.60] |
| ZD | .120 [3.05] | .610 [15.49] |
| ZI* | .520 [13.21] | .110 [2.79] |
| ZJ* | .720 [18.29] | .110 [2.79] |
| ZO* | .820 [20.83] | .110 [2.79] |
| ZQ* | 1.020 [25.91] | .110 [2.79] |
| ZR* | 1.220 [30.99] | .110 [2.79] |

*Consult factory for availability.

SMT TERMINATIONS

Single Row with -M89, -M511, -M308 Modification Code

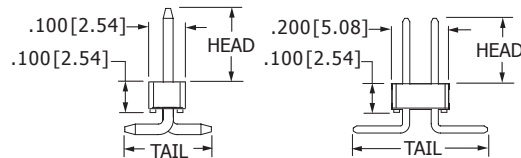


| P/N CODE | HEAD | TAIL |
|----------|--------------|-------------|
| BS | .230 [5.84] | .180 [4.57] |
| GS | .318 [8.08] | .180 [4.57] |
| ZC* | .120 [3.05] | .180 [4.57] |
| ZU* | .420 [10.67] | .180 [4.57] |

*Consult factory for availability.

SMT TERMINATIONS

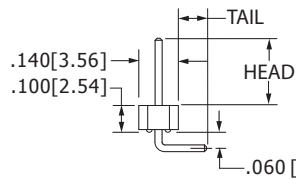
Single or Dual Row with -M30, -M508, -M596 Modification Code



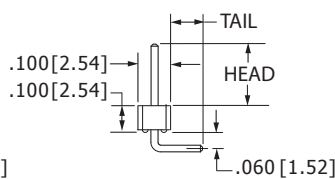
| P/N CODE | HEAD | SINGLE ROW TAIL | DUAL ROW TAIL |
|----------|--------------|-----------------|---------------|
| AB | .230 [5.84] | .320 [8.13] | .420 [10.67] |
| FB | .318 [8.08] | .300 [7.62] | .400 [10.16] |
| ZS* | .120 [3.05] | .200 [5.08] | .300 [7.62] |
| ZT* | .420 [10.67] | .200 [5.08] | .300 [7.62] |

*Consult factory for availability.

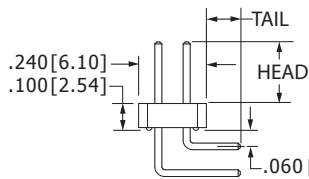
RIGHT ANGLE TERMINATIONS



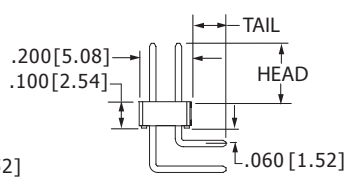
RIGHT ANGLE (Standard)



RIGHT ANGLE SINGLE (Narrow)
-M71, -M509, -M595 Modification Code



RIGHT ANGLE (Standard)



RIGHT ANGLE DUAL (Narrow)
-M71, -M509, -M595 Modification Code

| P/N CODE | HEAD | TAIL | -M71, -M509, -M595 TAIL |
|----------|-------------|---------------|-------------------------|
| BA | .230 [5.84] | .100 [2.54] | .120 [3.05] |
| BB | .230 [5.84] | .200 [5.08] | .220 [5.59] |
| BC | .230 [5.84] | .300 [7.62] | .320 [8.13] |
| BD | .230 [5.84] | .400 [10.16] | .420 [10.67] |
| BE | .230 [5.84] | .500 [12.70] | .520 [13.21] |
| BF** | .230 [5.84] | .600 [15.24] | .620 [15.75] |
| BG** | .230 [5.84] | .700 [17.78] | .720 [18.29] |
| BH* | .230 [5.84] | .800 [20.32] | .820 [20.83] |
| BI* | .230 [5.84] | .900 [22.86] | .920 [23.37] |
| BJ* | .230 [5.84] | 1.000 [25.40] | 1.020 [25.91] |
| GA | .318 [8.08] | .100 [2.54] | .120 [3.05] |
| GB | .318 [8.08] | .200 [5.08] | .220 [5.59] |
| GC** | .318 [8.08] | .300 [7.62] | .320 [8.13] |
| GD** | .318 [8.08] | .400 [10.16] | .420 [10.67] |
| GE* | .318 [8.08] | .600 [15.24] | .620 [15.75] |
| GF* | .318 [8.08] | .800 [20.32] | .820 [20.83] |
| DA** | .120 [3.05] | .120 [3.05] | .140 [3.56] |

*Consult factory for availability.

**Consult factory for availability in Dual Readout.



.100" [2.54 mm] Contact Centers, Male Breakaway Headers, Straight/Right Angle/SMT

PART NUMBER OPTIONS

MATERIALS (INSULATOR/CONTACT)

- P = Black PBT or Equivalent/Phosphor Bronze
Operating Temperature: -65°C to +125°C
Processing Temperature: Manual/Wave Soldering
 - G = Black PA9T/Phosphor Bronze
Operating Temperature: -65°C to +150°C
Processing Temperature: 260°C Max. for 10 sec.
 - *R = Green PPS/Phosphor Bronze (Consult Factory)
Operating Temperature: -65°C to +200°C
Processing Temperature: 260°C Max. for 20 sec.
 - *Q = Tan PEEK/Phosphor Bronze (Consult Factory)
Operating Temperature: -65°C to +250°C
Processing Temperature: 260°C Max. for 20 sec.
- *Available with overall gold plating ('M') only

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

- | Contact Surface | Termination |
|---------------------------------------|--------------------------|
| B = .000010" Gold | .000100" Pure Tin, Matte |
| C = .000030" Gold | .000100" Pure Tin, Matte |
| E = .000100" Pure Tin, Matte, Overall | |
| G = .000010" Gold | .000005" Gold |
| S = .000010" Gold | .000010" Gold Overall |
| M = .000030" Gold | .000010" Gold Overall |

CONTACT CENTERS

C = .100" [2.54 mm]

NUMBER OF POSITIONS

01 Thru 36 (eg. 36 Dual = 72 Contacts)

READOUT (Opposite Page)

- S = Single
- D = Dual

P B C 36 D AA N - Mxxx

MODIFICATION CODE (Consult Factory)

OMIT FOR STANDARD

- M500 = Brown PPS**
 - M594 = White PA9T***
 - M30 = SMT, Vertical
(M508 for brown PPS**, M596 for white PA9T***)
 - M89 = SMT, Horizontal
(M511 for brown PPS**, M308 for white PA9T***)
Available with single row only
 - M71 = Narrow Body
(M509 for brown PPS**, M595 for white PA9T***)
Available with Right Angle Only
- **Brown PPS available with material code 'R' only
***White PA9T available with material code 'G' only

MOUNTING STYLE

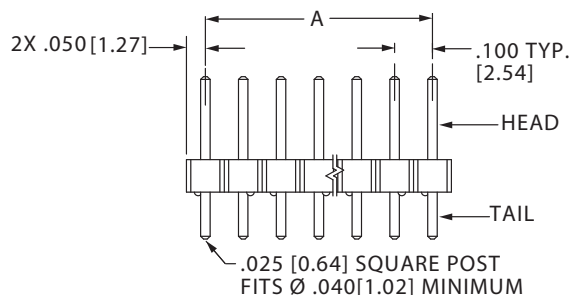
- N = No Mounting
- R = Retention Lead (Single Row & 'AA' Termination Only)

TERMINATION TYPE (Opposite Page)

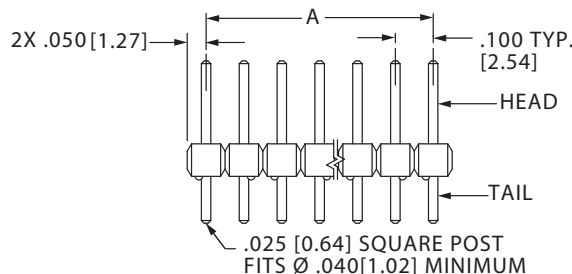
- Straight** = AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR
- Right Angle** = BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, GA, GB, GC, GD, GE, GF, DA
- Right Angle with -M71, -M509, -M595 Modification Code** = BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, GA, GB, GE, GF
- SMT with -M89, -M511, -M308 Modification Code** = BS, GS, ZC, ZU
- SMT with -M30, -M508, -M596 Modification Code** = AB, FB, ZS, ZT

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



SINGLE READOUT, STRAIGHT TAIL SHOWN



DUAL READOUT, STRAIGHT TAIL SHOWN

| PART NUMBER | NUMBER OF CONTACTS SINGLE/DUAL | A | | B | |
|--------------|--------------------------------|-------|-------|-------|-------|
| | | in | mm | in | mm |
| __C01S(D)___ | 01/02 | 0.000 | 0.00 | 0.100 | 2.54 |
| __C02S(D)___ | 02/04 | 0.100 | 2.54 | 0.200 | 5.08 |
| __C03S(D)___ | 03/06 | 0.200 | 5.08 | 0.300 | 7.62 |
| __C04S(D)___ | 04/08 | 0.300 | 7.62 | 0.400 | 10.16 |
| __C05S(D)___ | 05/10 | 0.400 | 10.16 | 0.500 | 12.70 |
| __C06S(D)___ | 06/12 | 0.500 | 12.70 | 0.600 | 15.24 |
| __C07S(D)___ | 07/14 | 0.600 | 15.24 | 0.700 | 17.78 |
| __C08S(D)___ | 08/16 | 0.700 | 17.78 | 0.800 | 20.32 |
| __C09S(D)___ | 09/18 | 0.800 | 20.32 | 0.900 | 22.86 |
| __C10S(D)___ | 10/20 | 0.900 | 22.86 | 1.000 | 25.40 |
| __C11S(D)___ | 11/22 | 1.000 | 25.40 | 1.100 | 27.94 |
| __C12S(D)___ | 12/24 | 1.100 | 27.94 | 1.200 | 30.48 |
| __C13S(D)___ | 13/26 | 1.200 | 30.48 | 1.300 | 33.02 |
| __C14S(D)___ | 14/28 | 1.300 | 33.02 | 1.400 | 35.56 |
| __C15S(D)___ | 15/30 | 1.400 | 35.56 | 1.500 | 38.10 |
| __C16S(D)___ | 16/32 | 1.500 | 38.10 | 1.600 | 40.64 |
| __C17S(D)___ | 17/34 | 1.600 | 40.64 | 1.700 | 43.18 |
| __C18S(D)___ | 18/36 | 1.700 | 43.18 | 1.800 | 45.72 |
| __C19S(D)___ | 19/38 | 1.800 | 45.72 | 1.900 | 48.26 |
| __C20S(D)___ | 20/40 | 1.900 | 48.26 | 2.000 | 50.80 |
| __C21S(D)___ | 21/42 | 2.000 | 50.80 | 2.100 | 53.34 |
| __C22S(D)___ | 22/44 | 2.100 | 53.34 | 2.200 | 55.88 |
| __C23S(D)___ | 23/46 | 2.200 | 55.88 | 2.300 | 58.42 |
| __C24S(D)___ | 24/48 | 2.300 | 58.42 | 2.400 | 60.96 |
| __C25S(D)___ | 25/50 | 2.400 | 60.96 | 2.500 | 63.50 |
| __C26S(D)___ | 26/52 | 2.500 | 63.50 | 2.600 | 66.04 |
| __C27S(D)___ | 27/54 | 2.600 | 66.04 | 2.700 | 68.58 |
| __C28S(D)___ | 28/56 | 2.700 | 68.58 | 2.800 | 71.12 |
| __C29S(D)___ | 29/58 | 2.800 | 71.12 | 2.900 | 73.66 |
| __C30S(D)___ | 30/60 | 2.900 | 73.66 | 3.000 | 76.20 |
| __C31S(D)___ | 31/62 | 3.000 | 76.20 | 3.100 | 78.74 |
| __C32S(D)___ | 32/64 | 3.100 | 78.74 | 3.200 | 81.28 |
| __C33S(D)___ | 33/66 | 3.200 | 81.28 | 3.300 | 83.82 |
| __C34S(D)___ | 34/68 | 3.300 | 83.82 | 3.400 | 86.36 |
| __C35S(D)___ | 35/70 | 3.400 | 86.36 | 3.500 | 88.90 |
| __C36S(D)___ | 36/72 | 3.500 | 88.90 | 3.600 | 91.44 |

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