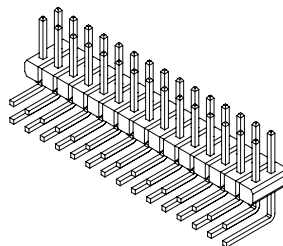




## .100" [2.54 mm] Contact Centers, Male Breakaway Headers, Straight/Right Angle/SMT

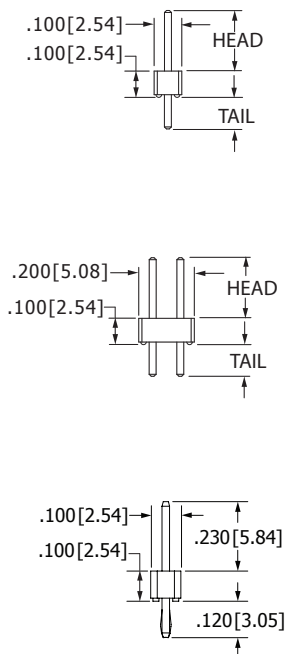
### SPECIFICATIONS

- 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



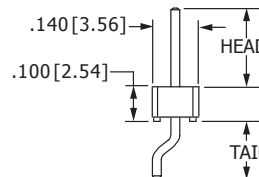
**RETENTION LEAD MOUNTING**  
(EXAMPLE P/N: PBC365AAR)

| 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

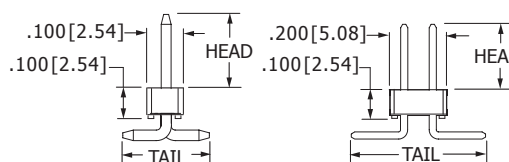


| P/N CODE | HEAD         | TAIL        |
|----------|--------------|-------------|
| BS       | .230 [5.84]  | .180 [4.57] |
| GS       | .318 [8.08]  | .180 [4.57] |
| ZC*      | .120 [3.05]  | .180 [4.57] |
| ZU*      | .420 [10.67] | .180 [4.57] |

\*Consult factory for availability.

#### SMT TERMINATIONS

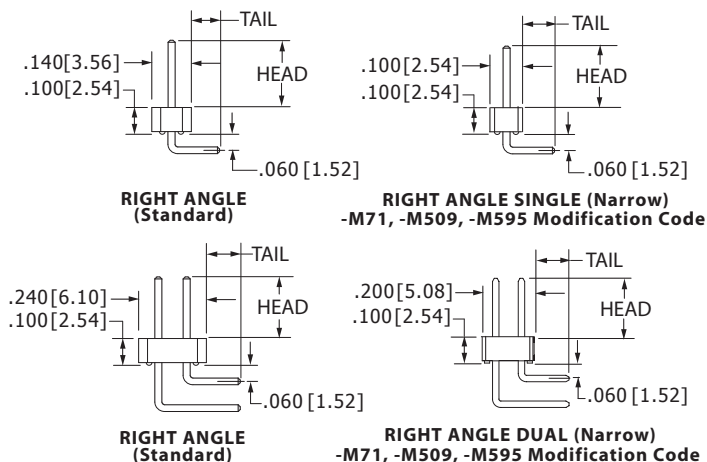
Single or Dual Row with -M30, -M508, -M596 Modification Code



| 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

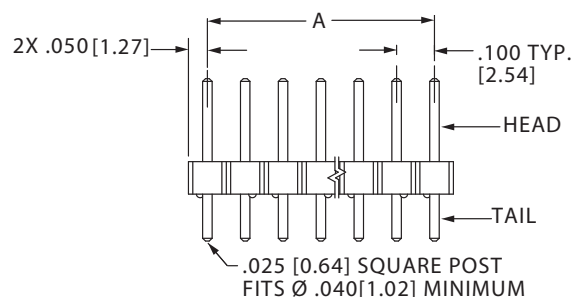
**Right Angle with -M71, -M509, -M595 Modification Code**  
= BA, BB, BC, BD, BE, BH, BI, BJ, GA, GB, GE, GF

**SMT with -M89, -M511, -M308 Modification Code**  
= BS, GS, ZC, ZU

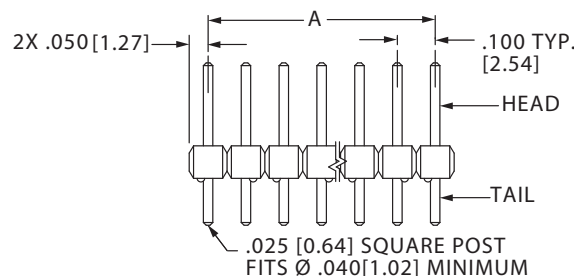
**SMT with -M30, -M508, -M596 Modification Code**  
= AB, FB, ZS, ZT

**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<br>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 |