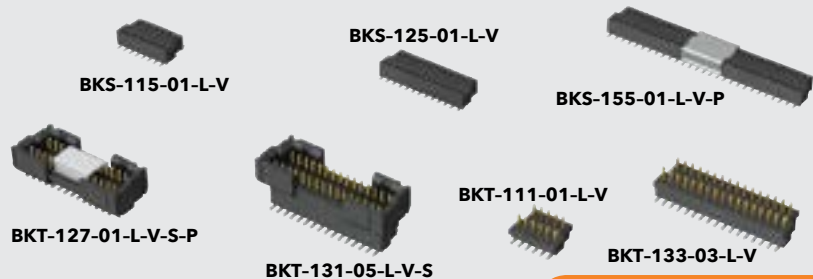


(1.00 mm) .0394"

**BKT, BKS SERIES**

# POLARIZED MICRO HEADER & SOCKET

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?BKT](http://www.samtec.com?BKT) or [www.samtec.com?BKS](http://www.samtec.com?BKS)

**Insulator Material:**  
Liquid Crystal Polymer

**Terminal Material:**  
Phosphor Bronze

**Plating:**

Au or Sn over

50  $\mu$ " (1.27  $\mu$ m) Ni

**Current Rating:**

2.8 A per pin

(2 pins powered)

**Operating Temp Range:**

-55 °C to +125 °C

**Insertion Depth:**

(1.40 mm) .055" minimum

**Normal Force:**

40 grams (0.39 N) average

**Max Cycles:**

100 with 10  $\mu$ " (0.25  $\mu$ m) Au

**RoHS Compliant:**

Yes

## PROCESSING

**Lead-Free Solderable:**

Yes

**SMT Lead Coplanarity:**

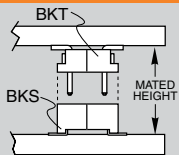
(0.10 mm) .004" max

## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



## APPLICATIONS



| BKT LEAD STYLE | MATED HEIGHT* |
|----------------|---------------|
| -01            | (4.14) .163   |
| -02            | (4.50) .177   |
| -03            | (5.00) .197   |
| -04            | (6.00) .236   |
| -05            | (7.00) .276   |

\*Processing conditions will affect mated height.

**TIGER CLAW**  
CONTACT

**Note:**  
Some sizes, styles and options are non-standard, non-returnable.

| BKT                                  | 1           | NO. OF POSITIONS | BODY STYLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PLATING OPTION | V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | OPTIONS                 |            |   |   |                              |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |
|--------------------------------------|-------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------|---|---|------------------------------|-----|-------------|-------------|-------------|-----|-------------|-------------|-------------|-----|-------------|-------------|-------------|-----|-------------|-------------|-------------|-----|-------------|-------------|-------------|
| Mates with:<br>BKS                   |             |                  | Specify BODY STYLE from chart                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                | <p><b>-F</b><br/>= Gold flash on post, Matte Tin on tail</p> <p><b>-L</b><br/>= 10 <math>\mu</math>" (0.25 <math>\mu</math>m) Gold on post, Matte Tin on tail</p> <p><b>-S</b><br/>= Shrouded (15 positions minimum)</p> <p><b>-A</b><br/>= Alignment Pin (Metal or plastic at Samtec discretion) (13 positions minimum)</p> <p><b>-P</b><br/>= Pick &amp; Place Pad (13 positions minimum)</p> <p><b>-TR</b><br/>= Tape &amp; Reel Packaging</p> <p><b>-FR</b><br/>= Full Reel Tape &amp; Reel (must order max. quantity per reel; Contact Samtec for quantity breaks)</p> |                         |            |   |   |                              |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |
| 07 thru 69<br>(Odd lead counts only) |             |                  | <table border="1"> <thead> <tr> <th>BODY STYLE</th> <th>A</th> <th>B</th> <th>BOARD SPACE (Mated with BKS)</th> </tr> </thead> <tbody> <tr> <td>-01</td> <td>(1.93) .076</td> <td>(3.91) .154</td> <td>(4.14) .163</td> </tr> <tr> <td>-02</td> <td>(2.29) .090</td> <td>(4.27) .168</td> <td>(4.50) .177</td> </tr> <tr> <td>-03</td> <td>(2.79) .110</td> <td>(4.78) .188</td> <td>(5.00) .197</td> </tr> <tr> <td>-04</td> <td>(3.78) .149</td> <td>(5.77) .227</td> <td>(6.00) .236</td> </tr> <tr> <td>-05</td> <td>(4.80) .189</td> <td>(6.78) .267</td> <td>(7.00) .276</td> </tr> </tbody> </table> |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         | BODY STYLE | A | B | BOARD SPACE (Mated with BKS) | -01 | (1.93) .076 | (3.91) .154 | (4.14) .163 | -02 | (2.29) .090 | (4.27) .168 | (4.50) .177 | -03 | (2.79) .110 | (4.78) .188 | (5.00) .197 | -04 | (3.78) .149 | (5.77) .227 | (6.00) .236 | -05 | (4.80) .189 | (6.78) .267 | (7.00) .276 |
| BODY STYLE                           | A           | B                | BOARD SPACE (Mated with BKS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         |            |   |   |                              |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |
| -01                                  | (1.93) .076 | (3.91) .154      | (4.14) .163                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         |            |   |   |                              |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |
| -02                                  | (2.29) .090 | (4.27) .168      | (4.50) .177                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         |            |   |   |                              |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |
| -03                                  | (2.79) .110 | (4.78) .188      | (5.00) .197                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         |            |   |   |                              |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |
| -04                                  | (3.78) .149 | (5.77) .227      | (6.00) .236                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         |            |   |   |                              |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |
| -05                                  | (4.80) .189 | (6.78) .267      | (7.00) .276                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         |            |   |   |                              |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |
| <p><b>-A OPTION</b></p>              |             |                  | <p><b>-P OPTION</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p><b>-S OPTION</b></p> |            |   |   |                              |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |

| BKS                                                  | 1           | NO. OF POSITIONS | 01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PLATING OPTION | V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | OPTIONS |            |   |   |                              |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |
|------------------------------------------------------|-------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------|---|---|------------------------------|-----|-------------|-------------|-------------|-----|-------------|-------------|-------------|-----|-------------|-------------|-------------|-----|-------------|-------------|-------------|-----|-------------|-------------|-------------|
| Mates with:<br>BKT                                   |             |                  | Specify BODY STYLE from chart                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                | <p><b>-F</b><br/>=Pre-plated Gold flash on contact, Matte Tin on tail</p> <p><b>-L</b><br/>=Pre-plated 10 <math>\mu</math>" (0.25 <math>\mu</math>m) Gold contact, Matte Tin on tail</p> <p><b>-A</b><br/>=Alignment Pin (Metal or plastic at Samtec discretion) (11 positions minimum)</p> <p><b>-P</b><br/>=Pick &amp; Place Pad (13 positions minimum) Not always necessary for auto placement.</p> <p><b>-TR</b><br/>=Tape &amp; Reel Packaging</p> <p><b>-FR</b><br/>=Full Reel Tape &amp; Reel (must order max. quantity per reel; Contact Samtec for quantity breaks)</p> |         |            |   |   |                              |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |
| 07 thru 69<br>(07 positions available with -TR only) |             |                  | <table border="1"> <thead> <tr> <th>BODY STYLE</th> <th>A</th> <th>B</th> <th>BOARD SPACE (Mated with BKS)</th> </tr> </thead> <tbody> <tr> <td>-01</td> <td>(1.93) .076</td> <td>(3.91) .154</td> <td>(4.14) .163</td> </tr> <tr> <td>-02</td> <td>(2.29) .090</td> <td>(4.27) .168</td> <td>(4.50) .177</td> </tr> <tr> <td>-03</td> <td>(2.79) .110</td> <td>(4.78) .188</td> <td>(5.00) .197</td> </tr> <tr> <td>-04</td> <td>(3.78) .149</td> <td>(5.77) .227</td> <td>(6.00) .236</td> </tr> <tr> <td>-05</td> <td>(4.80) .189</td> <td>(6.78) .267</td> <td>(7.00) .276</td> </tr> </tbody> </table> |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         | BODY STYLE | A | B | BOARD SPACE (Mated with BKS) | -01 | (1.93) .076 | (3.91) .154 | (4.14) .163 | -02 | (2.29) .090 | (4.27) .168 | (4.50) .177 | -03 | (2.79) .110 | (4.78) .188 | (5.00) .197 | -04 | (3.78) .149 | (5.77) .227 | (6.00) .236 | -05 | (4.80) .189 | (6.78) .267 | (7.00) .276 |
| BODY STYLE                                           | A           | B                | BOARD SPACE (Mated with BKS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |            |   |   |                              |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |
| -01                                                  | (1.93) .076 | (3.91) .154      | (4.14) .163                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |            |   |   |                              |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |
| -02                                                  | (2.29) .090 | (4.27) .168      | (4.50) .177                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |            |   |   |                              |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |
| -03                                                  | (2.79) .110 | (4.78) .188      | (5.00) .197                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |            |   |   |                              |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |
| -04                                                  | (3.78) .149 | (5.77) .227      | (6.00) .236                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |            |   |   |                              |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |
| -05                                                  | (4.80) .189 | (6.78) .267      | (7.00) .276                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |            |   |   |                              |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |
| <p><b>-P OPTION</b></p>                              |             |                  | <p><b>-A OPTION</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |            |   |   |                              |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |     |             |             |             |