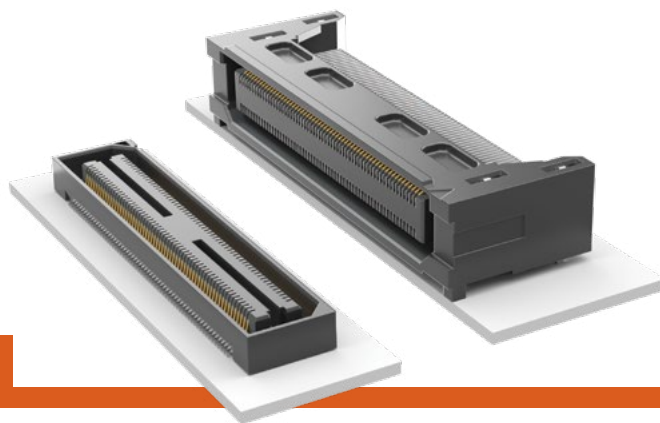# BASIC BLADE & BEAM SOCKET

(0.50 mm) .0197" PITCH • BSH SERIES

BSH
Mates:
BTH

SPECIFICATIONS

Insulator Material:
Black LCP
Contact Material:
Phosphor Bronze
Plating:
Au or Sn over
50 µ" (1.27 µm) Ni
Current Rating:
2 A per pin
(2 pins powered)
Operating Temp Range:
-55 °C to +125 °C
Voltage Rating:
175 VAC
Max Cycles:
100

PROCESSING

Lead-Free Solderable:
Yes
SMT Lead Coplanarity:
(0.10 mm) .004" max (030-090)
(0.15 mm) .006" max (120-150)*
*(.004" stencil solution
may be available; contact
ipg@samtec.com)
Board Stacking:
For applications requiring more
than two connectors per board
or 90 positions or higher,
contact ipg@samtec.com

ALSO AVAILABLE
MOQ Required

30 µ" (0.76 µm) Gold

Edge Mount Capability

8 mm, 11 mm, 16 mm, 19 mm
and 22 mm Stack Height
(Caution: Some automatic
placement/inspection
machines may have
component height
restrictions. Please consult
machinery specifications.)
(11 mm, 16 mm, 19 mm
and 22 mm not available
with 50 positions)

10 YEAR MFG
WITH 50 µ" GOLD
EXTENDED LIFE
PRODUCT
HIGH MATING
CYCLES

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

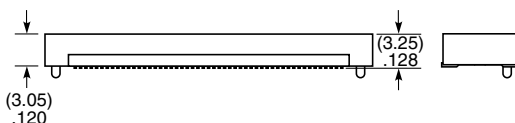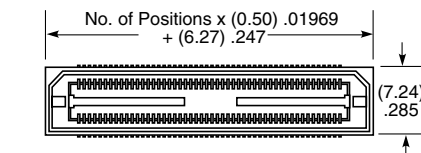| BSH | – | NO. OF POSITIONS PER ROW | – | 01 | – | PLATING OPTION | – | D | – | A | – | OTHER OPTION |

**–030, –050, –060,
–090, –120, –150**

–F
= Gold Flash
on contact,
Matte Tin on tail

–L
= 10 µ" (0.25 µm)
Gold on contact,
Matte Tin on tail

–C*
= Electro-Polished
Selective
50 µ" (1.27 µm) min
Au over 150 µ" (3.81 µm)
Ni on Signal Pins in
contact area,
Matte Tin over
50 µ" (1.27 µm) min
Ni on all solder tails
(*–C Plating passes
10 year MFG testing)

–TR
= Tape & Reel
(120 positions
maximum)

–FR
= Full Reel
Tape & Reel
(must order
maximum
quantity
per reel;
contact
Samtec for
quantity breaks)
(120 positions
maximum)

No. of Positions x (0.50) .01969
+ (6.27) .247

(7.24)
.285

(3.25)
.128

(3.05)
.120

MATED HEIGHT

LEAD STYLE	MATED HEIGHT*
–01	(5.00 mm) .1971"

*Processing conditions
will affect mated height.

| BSH | – | NO. OF POSITIONS PER ROW | – | 01 | – | PLATING OPTION | – | D | – | RA | – | WT | – | OTHER OPTION |

–030, –060, –090

–F
= Gold Flash
on contact,
Matte Tin on tail

–L
= 10 µ" (0.25 µm)
Gold on contact,
Matte Tin on tail

–GP
= Guide
Post

No. of Positions x (0.50) .01969 + (10.88) .428

(13.59)
.535

(7.24)
.285

(8.82)
.347
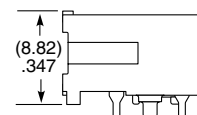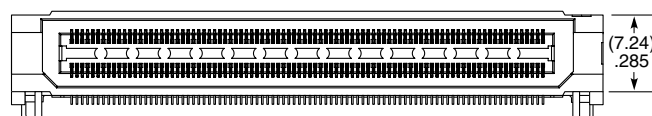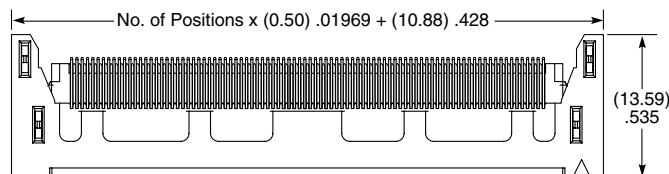
Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Samtec](#):

BSH-090-01-F-D-A   BSH-090-01-L-D-A-TR   BSH-060-01-F-D-A-TR   BSH-030-01-L-D-A   BSH-120-01-F-D-A   BSH-150-01-L-D-A   BSH-050-01-F-D-A   BSH-050-01-F-D-A-TR   BSH-050-01-L-D-A   BSH-060-01-F-D-A   BSH-060-01-L-D-A   BSH-060-01-L-D-A-TR   BSH-030-01-L-D-A-TR   BSH-050-01-L-D-A-TR   BSH-090-01-L-D-A   BSH-030-01-F-D-A   BSH-030-01-L-D-TR   BSH-030-01-F-D-A-TR   BSH-030-01-H-D-A-TR   BSH-060-01-F-D-RA-WT   BSH-030-01-H-D-A   BSH-090-01-F-D-A-TR   BSH-030-01-L-D   BSH-050-01-H-D-A   BSH-180-01-L-D   BSH-150-01-L-D   BSH-090-01-F-D   BSH-090-01-L-D   BSH-120-01-F-D   BSH-050-01-H-D-A-TR   BSH-060-01-L-D   BSH-060-01-F-D   BSH-120-01-L-D   BSH-030-01-F-D   BSH-050-01-H-D-LC-TR   BSH-120-01-H-D-A   BSH-120-01-L-D-EM2   BSH-050-01-L-D   BSH-150-01-F-D-LC   BSH-150-01-H-D-A   BSH-030-01-F-D-TR   BSH-060-01-F-D-TR   BSH-060-01-H-D   BSH-060-01-H-D-LC   BSH-090-01-H-D   BSH-030-01-F-D-EM2   BSH-060-01-F-D-LC-TR   BSH-090-01-H-D-A-TR   BSH-090-01-L-D-LC-TR   BSH-050-01-L-D-LC   BSH-090-01-L-D-LC   BSH-120-01-F-D-A-TR   BSH-150-01-L-D-LC   BSH-060-01-L-D-EM2   BSH-060-01-L-D-LC-TR   BSH-060-01-H-D-A   BSH-090-01-L-D-EM2   BSH-150-01-F-D   BSH-150-01-L-D-EM2   BSH-030-01-L-D-LC-TR   BSH-090-01-H-D-A   BSH-060-01-H-D-A-TR   BSH-090-01-H-D-LC   BSH-030-01-H-D   BSH-030-01-H-D-TR   BSH-030-01-L-D-LC   BSH-060-01-H-D-EM2   BSH-120-01-F-D-EM2   BSH-030-01-F-D-LC   BSH-060-01-F-D-EM2   BSH-060-01-L-D-LC   BSH-060-01-L-D-TR   BSH-050-01-L-D-LC-TR   BSH-090-01-F-D-EM2   BSH-090-01-L-D-TR   BSH-090-01-H-D-EM2   BSH-060-01-C-D-A   BSH-150-01-F-D-EM2   BSH-030-01-L-D-EM2   BSH-050-01-C-D-A   BSH-120-01-H-D   BSH-120-01-H-D-A-TR   BSH-120-01-H-D-LC   BSH-060-01-C-D-A-TR   BSH-030-01-F-D-LC-TR   BSH-050-01-F-D   BSH-050-01-L-D-TR   BSH-090-01-C-D-A   BSH-090-01-F-D-RA-WT   BSH-090-01-L-D-RA-WT   BSH-090-01-L-D-RA-WT-GP   BSH-060-01-L-D-RA-WT-GP   BSH-030-01-F-D-RA-WT   BSH-030-01-L-D-RA-WT   BSH-030-01-L-D-RA-WT-GP   BSH-030-01-C-D-A   BSH-120-01-H-D-LC-TR   BSH-060-01-L-D-RA-WT   BSH-030-01-C-D-A-TR   BSH-120-01-L-D-LC