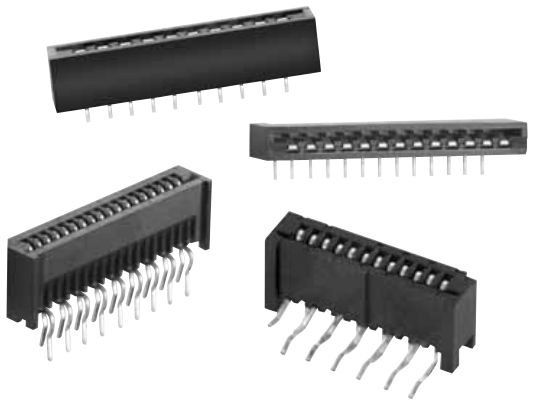
LIF FLEX CIRCUIT CONNECTOR

2.54mm [.100"] CENTERLINE
1.25mm [.049"] CENTERLINE
1.00mm [.039"] CENTERLINE
0.50mm [.020"] CENTERLINE

PCB SERIES



INTRODUCTION:
Adam Tech PCB Series Flexible Printed Circuit (FPC) and Flexible Flat Cable (FFC) connectors are a LIF (low insertion force) design that provides a low cost, fast, easy and reliable connection of flexible printed circuits to a PCB. Adam Tech's special contact design preserves conductor integrity while producing a stable, high pressure connection. This series includes single and dual row versions in 2.54mm, 1.25mm, 1.00mm & 0.50mm centerlines with vertical or horizontal orientations.

FEATURES:
Superior contact design protects conductors
High pressure contacts
Single or dual row versions
Choice of 2.54mm, 1.25mm, 1.00mm & 0.50mm centerlines

MATING FPC & FFC CABLE:
Mates with flat flexible cable and flexible printed circuits with thickness of 0.3mm

SPECIFICATIONS:

Material:
Standard insulator: PBT, Glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator color: Black
Contacts: Phosphor Bronze

Contact Plating:
Tin over copper underplate

Electrical:
Operating voltage: 100V AC max.
Current rating: .039" Spacing: 0.5 Amp max.
.049" Spacing: 1 Amp max
.100" Spacing: 3 Amps max
Contact resistance: 30 mΩ max. initial
Insulation resistance: 500 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:
Insertion Force: 5 oz max
Withdrawal Force: 3 oz min

Temperature Rating:
Operating temperature: -40°C to +85°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:
Anti-ESD plastic tubes or trays

APPROVALS AND CERTIFICATIONS:
UL Recognized & CSA Certified, File no. E224053

c UL us

Pb RoHS COMPLIANT

HI-TEMP INSULATOR AVAILABLE

ORDERING INFORMATION

PCB	A	10	T	20

SERIES INDICATOR
PCB = LIF Flex Circuit Connector

TYPE
A = .100" centerline in-line footprint
B = .049" centerline staggered footprint
C = .039" centerline staggered footprint
D = .039" centerline inline footprint
E = .020" centerline horizontal SMT

POSITIONS
02 thru 21

ENTRY ANGLE
T = Top entry
SA = Side entry
SB = Reverse side entry (.100" centerline only)

ROW SPACING
BLANK = Single Row
20 = 2.00mm PCB Row Spacing (Type C)
25 = 2.5mm PCB Row Spacing (Type B)
SMT = Surface Mount (Type B, C)

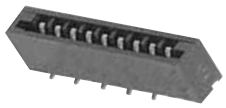
OPTIONS
Add designator(s) to end of part number
HT= Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

LIF FLEX CIRCUIT CONNECTOR

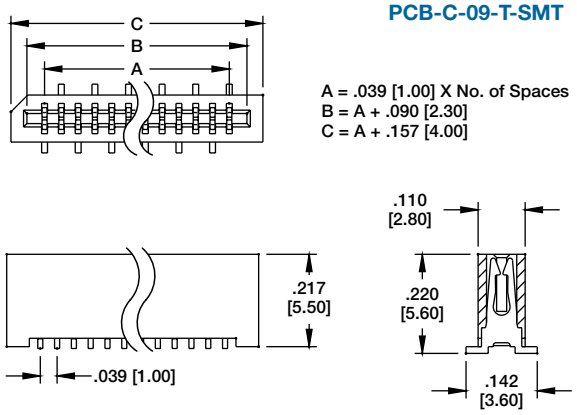
1.00mm [.039"] CENTERLINE

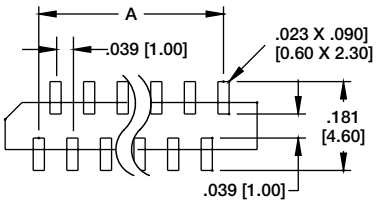
PCB SERIES

PCB-C
1.00 (.039") TOP ENTRY SMT



PCB-C-09-T-SMT

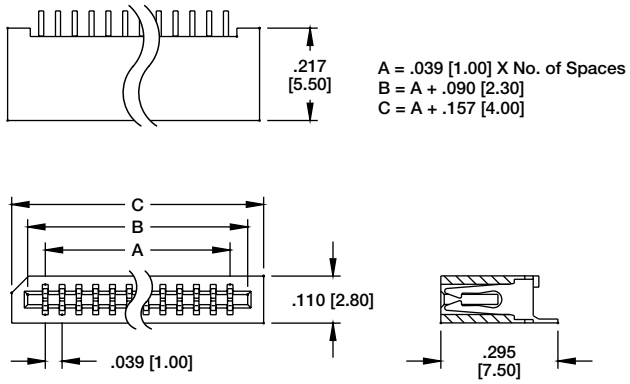


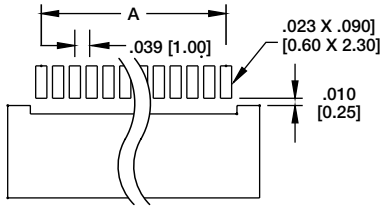


Recommended PCB Layout

PCB-C
1.00 (.039") SIDE ENTRY SMT

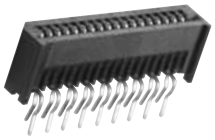
PCB-C-18-SA-SMT



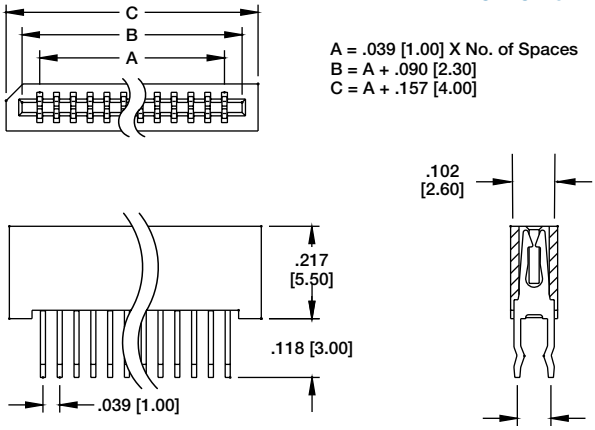


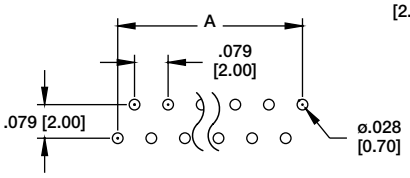
Recommended PCB Layout

PCB-C
1.00 (.039") TOP ENTRY THRU HOLE



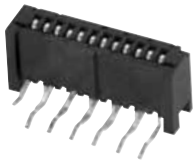
PCB-C-18-T-20



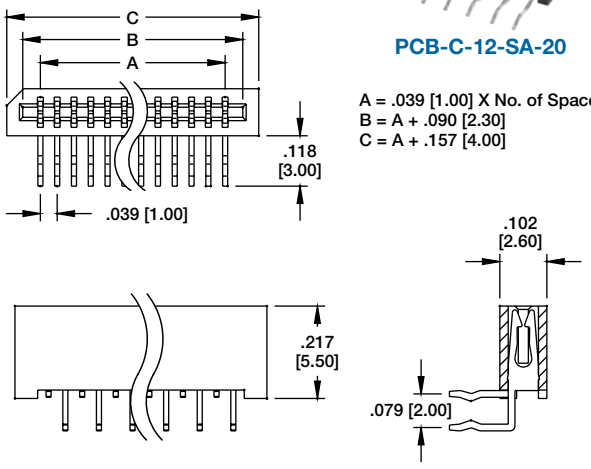


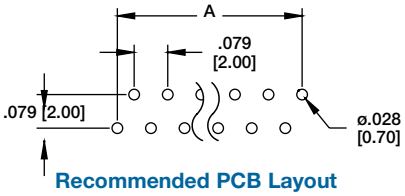
Recommended PCB Layout

PCB-C
1.00 (.039") SIDE ENTRY THRU HOLE



PCB-C-12-SA-20





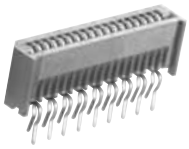
Recommended PCB Layout

LIF FLEX CIRCUIT CONNECTOR

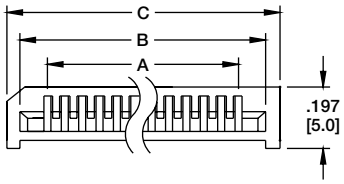
1.25mm [.049"] & .100" [2.54] CENTERLINE

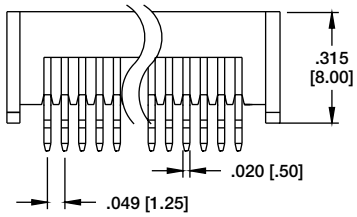
PCB SERIES

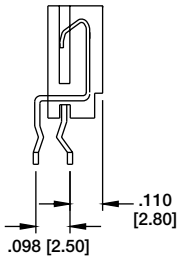
PCB-B
1.25 (.049") TOP ENTRY THRU HOLE

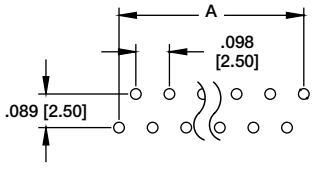


PCB-B-18-T-25





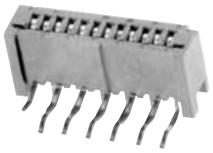




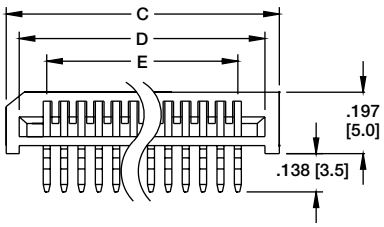
A = .049 [1.25] X No. of Spaces
B = A + .098 [2.50]
C = A + .197 [5.00]

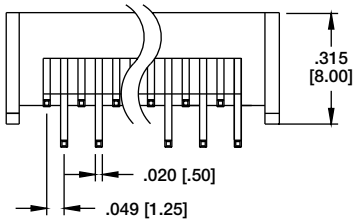
Recommended PCB Layout

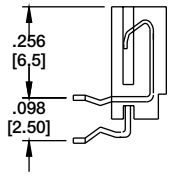
PCB-B
1.25 (.049") SIDE ENTRY THRU HOLE

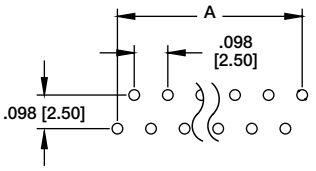


PCB-B-12-SA-25





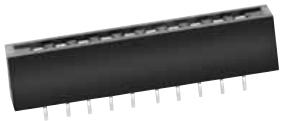




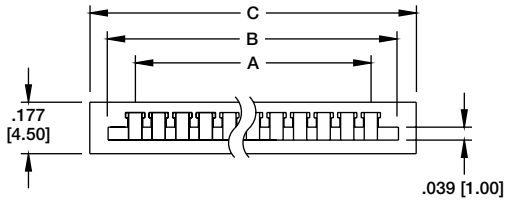
A = .049 [1.25] X No. of Spaces
B = A + .098 [2.50]
C = A + .197 [5.00]

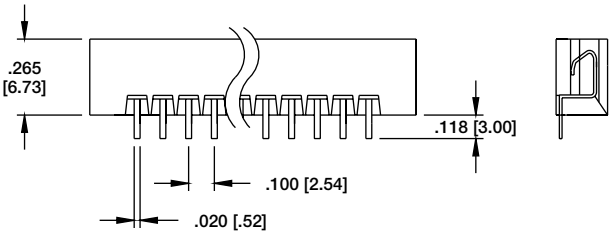
Recommended PCB Layout

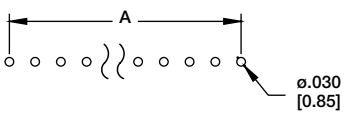
PCB-A
.100" (2.54) TOP ENTRY INLINE THRU HOLE



PCB-A-10-T



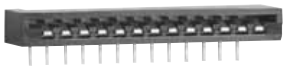




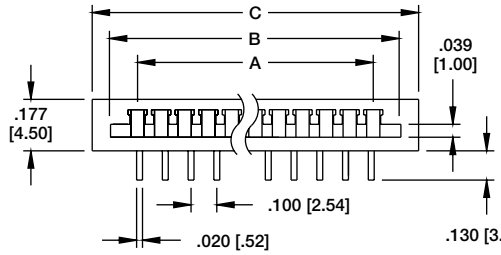
A = .100 [2.54] x no. of Spaces
B = A + .232 [5.90]
C = A + .315 [8.00]

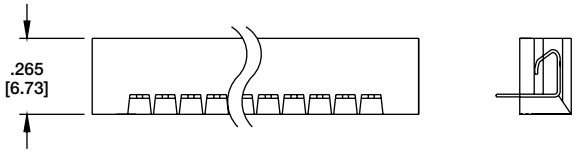
Recommended PCB Layout

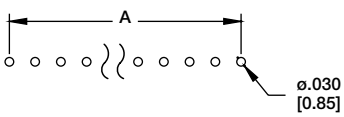
PCB-A
.100" (2.54) SIDE ENTRY INLINE THRU HOLE



PCB-A-13-SA







A = .100 [2.54] x no. of Spaces
B = A + .232 [5.90]
C = A + .315 [8.00]

Recommended PCB Layout