

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

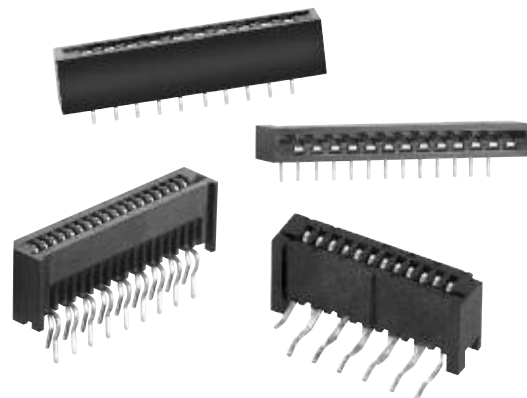
Hi-Temp insulator: 260°C

PACKAGING:

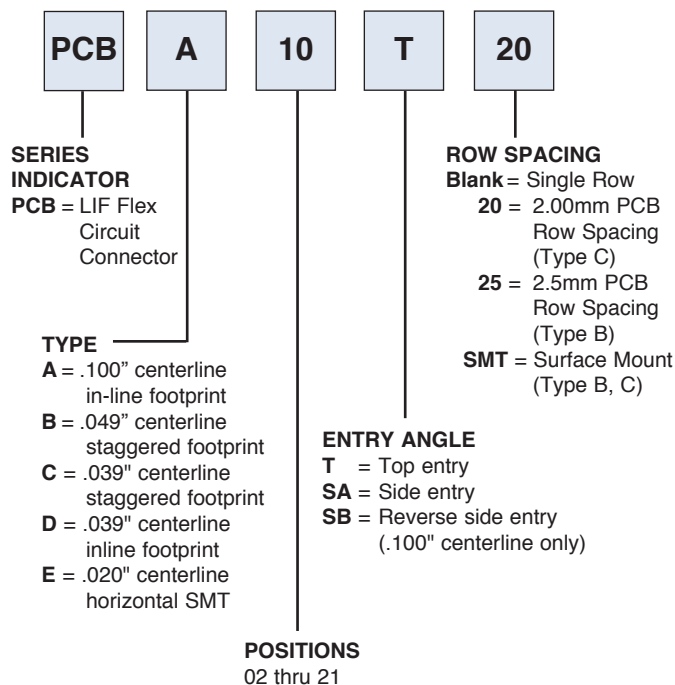
Anti-ESD plastic tubes or trays

APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053



ORDERING INFORMATION



OPTIONS

Add designator(s) to end of part number

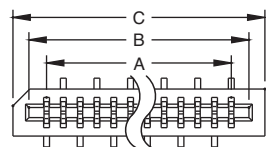
HT= Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

PCB-C

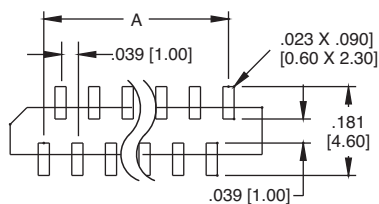
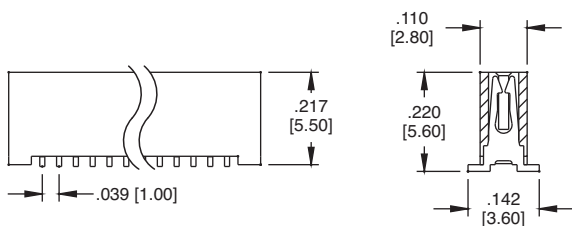
1.00 (.039") TOP ENTRY SMT



PCB-C-09-T-SMT



$$\begin{aligned} A &= .039 [1.00] \times \text{No. of Spaces} \\ B &= A + .090 [2.30] \\ C &= A + .157 [4.00] \end{aligned}$$



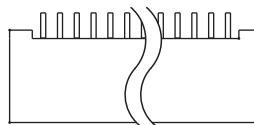
Recommended PCB Layout

PCB-C

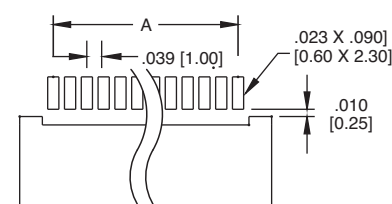
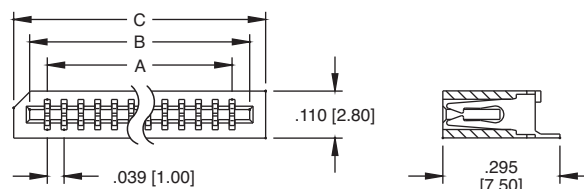
1.00 (.039") SIDE ENTRY SMT



PCB-C-18-SA-SMT



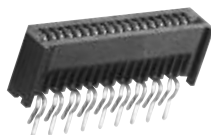
$$\begin{aligned} A &= .039 [1.00] \times \text{No. of Spaces} \\ B &= A + .090 [2.30] \\ C &= A + .157 [4.00] \end{aligned}$$



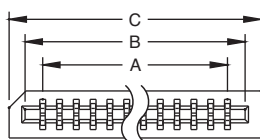
Recommended PCB Layout

PCB-C

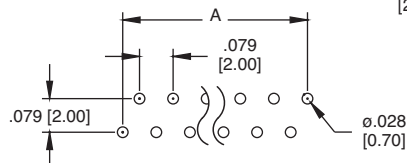
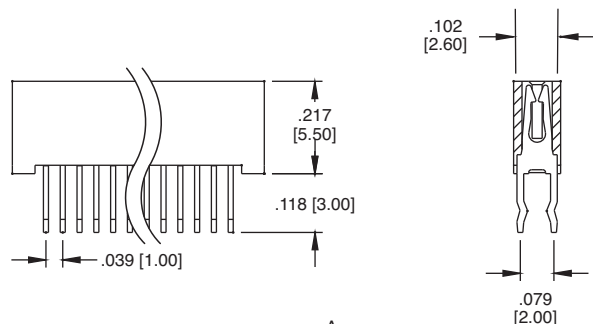
1.00 (.039") TOP ENTRY THRU HOLE



PCB-C-18-T-20



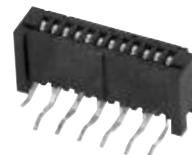
$$\begin{aligned} A &= .039 [1.00] \times \text{No. of Spaces} \\ B &= A + .090 [2.30] \\ C &= A + .157 [4.00] \end{aligned}$$



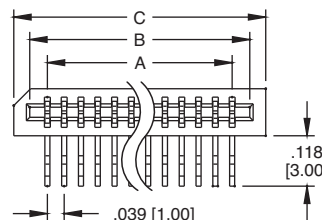
Recommended PCB Layout

PCB-C

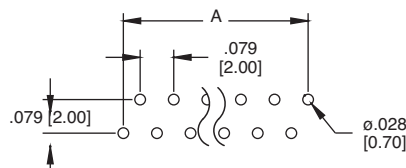
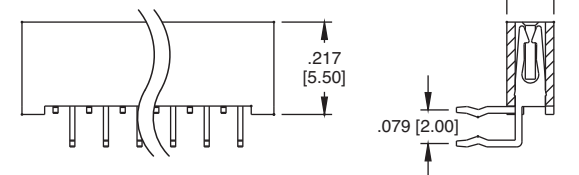
1.00 (.039") SIDE ENTRY THRU HOLE



PCB-C-12-SA-20



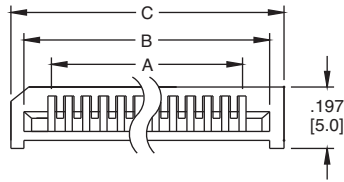
$$\begin{aligned} A &= .039 [1.00] \times \text{No. of Spaces} \\ B &= A + .090 [2.30] \\ C &= A + .157 [4.00] \end{aligned}$$



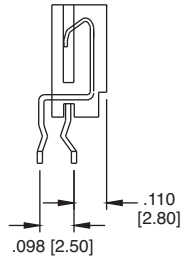
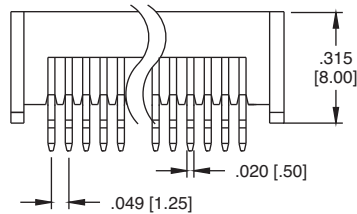
Recommended PCB Layout

PCB-B

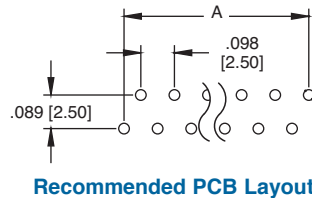
1.25 (.049") TOP ENTRY THRU HOLE



PCB-B-18-T-25



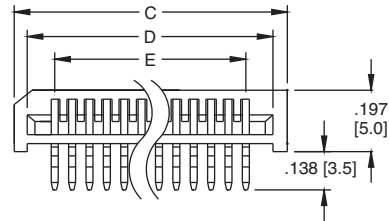
$$\begin{aligned} A &= .049 [1.25] \times \text{No. of Spaces} \\ B &= A + .098 [2.50] \\ C &= A + .197 [5.00] \end{aligned}$$



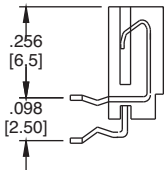
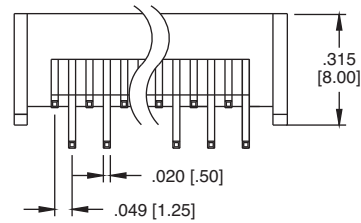
Recommended PCB Layout

PCB-B

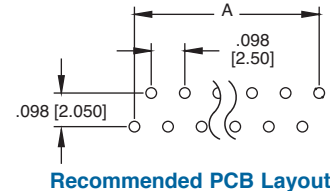
1.25(.049") SIDE ENTRY THRU HOLE



PCB-B-12-SA-25



$$\begin{aligned} A &= .049 [1.25] \times \text{No. of Spaces} \\ B &= A + .098 [2.50] \\ C &= A + .197 [5.00] \end{aligned}$$



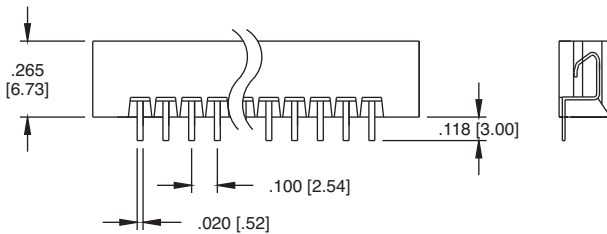
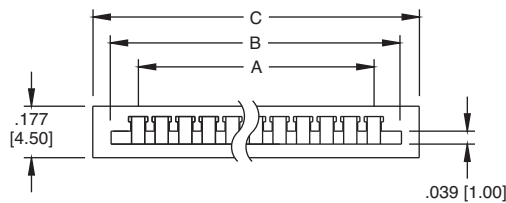
Recommended PCB Layout

PCB-A

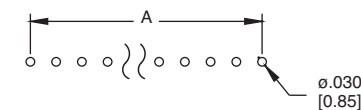
.100" (2.54) TOP ENTRY INLINE THRU HOLE



PCB-A-10-T



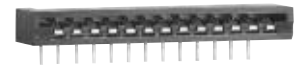
$$\begin{aligned} A &= .100 [2.54] \times \text{no. of Spaces} \\ B &= A + .232 [5.90] \\ C &= A + .315 [8.00] \end{aligned}$$



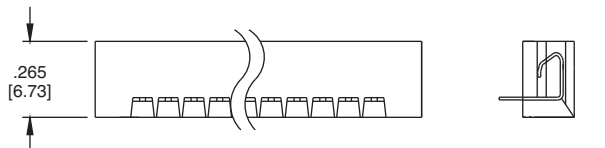
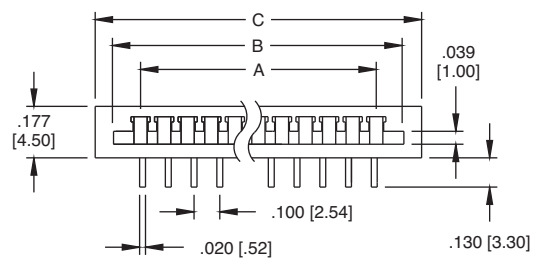
Recommended PCB Layout

PCB-A

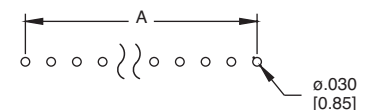
.100" (2.54) SIDE ENTRY INLINE THRU HOLE



PCB-A-13-SA



$$\begin{aligned} A &= .100 [2.54] \times \text{no. of Spaces} \\ B &= A + .232 [5.90] \\ C &= A + .315 [8.00] \end{aligned}$$



Recommended PCB Layout

Mouser Electronics

Authorized Distributor

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ADAM TECH:

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[PCB-C-20-T-20](#) [PCB-C-06-T-20](#) [PCB-C-16-T-20](#)