.050" RECEPTACLE STRIPS

.050" [1.27] CENTERLINE

HRS SERIES

INTRODUCTION:
Adam Tech HRS Series .050" Receptacle Strips are a series of sockets offered in a multitude of sizes and profiles designed to satisfy most .050"socket requirements. Available in Single and dual rows they are offered in straight, right angle, SMT, bottom entry and pass through PCB mounting styles. Each type has a specially designed contact system which produces a high normal force connection and is available in gold, tin or selective gold plating. All are available with standard or Hi-Temp Thermoplastic insulators. Our SMT offering is available with optional pick and place pads and tape & reel packaging.

FEATURES:
Broad range of sizes and profiles
Contact systems with high normal force
Choice of contact plating
SMT pick & place option
Optional Tape & reel packaging

MATING CONNECTORS:
Adam Tech HPH headers and all industry standard .050" pitch pin headers with .016" (0.4mm) square pins

SPECIFICATIONS:

Material:

Insulator: PBT, glass reinforced, rated UL94V-0
Nylon 46, rated UL94V-0
Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

Contact Plating:

U = Gold flash (30u" optional) over nickel underplate
SG = Gold flash (30u" optional) over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

Electrical:
Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.375 lbs per contact max.
Withdrawal force: 0.125 lbs per contact min.

Temperature rating:

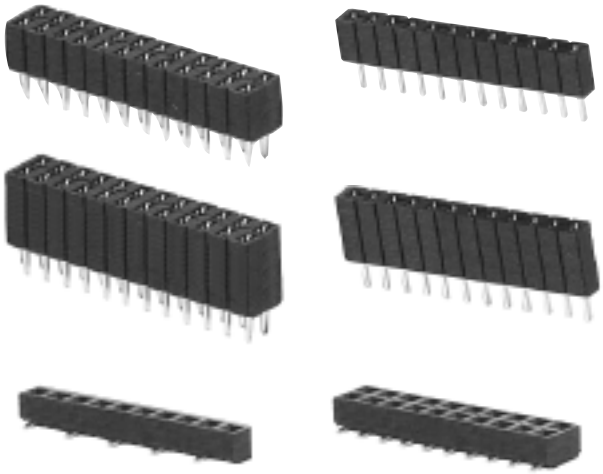
Operating temperature: -65°C to +125°C

PACKAGING:
Anti-ESD trays or tubes
(Tape and Reel optional for SMT option)

SAFETY AGENCY APPROVALS:
UL Recognized File No. E224053
CSA Certified File No. LR1578596

Pb-free Option available

RoHS COMPLIANT OPTION AVAILABLE



ORDERING INFORMATION

HRS	1A	50	G	A

SERIES INDICATOR
HRS = .050" Receptacle Strip

NO. OF ROWS / PROFILE
1A = Single Row, Standard Profile
1B = Single Row, Low Profile
2A = Dual Row, Standard Profile .050"x.100"
2B = Dual Row, Low Profile .050"x.100"
2C = Dual Row, Low Profile .050"x.050"(SMT)
2F = Dual Row, Low Profile .050"x.100"(SMT)
1F = Single Row, .230" Height
1G = Single Row, .079" Height, Top Entry, Surface Mount
2E = Dual Row, .134" Height .050"x.050" Surface Mount
2F = Dual Row, .230" Height .050"x.100"
2G = Dual Row, .085" Height .050"x.100"

NO. OF POSITIONS
Single Row: 02 thru 40
Dual Row: 04 thru 80

CONTACT PLATING
G = Gold plated
T = Tin plated
SG = Gold plated contact area, tin-lead plated solder tails

SOLDER TAIL LENGTH
A = Standard solder tail for .062"- .125" PCB thickness
SMT = Surface mount leads (profile 2C, 2D, 2E, 2F, 2G only)
SMT-A = Surface mount leads Type A (profile 1F, 1G only)
SMT-B = Surface mount leads Type B (profile 1F, 1G only)

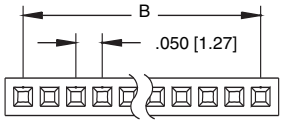
OPTIONS:
Add designator(s) to end of part number
30 = 30 µin gold plating in contact area
P = Guide Pegs
RC = RoHS compliant lead-free product with Hi-Temp insulator

.050" RECEPTACLE STRIPS

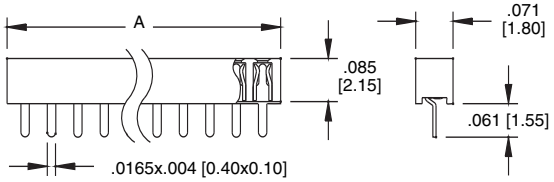
.085" HEIGHT .050" [1.27] CENTERLINE

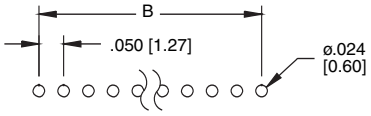
HRS SERIES

HRS-1C
.085" [2.15] HEIGHT



HRS-1C-13-GA

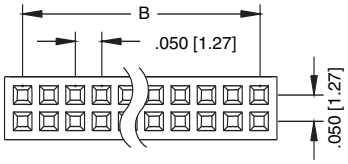




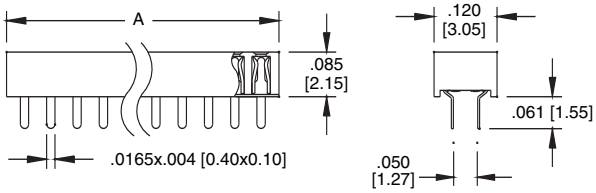
Recommended PCB Layout

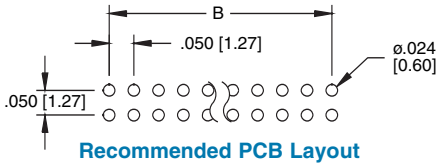
A = .050 [1.27] X No. of Positions + .018 [0.46]
B = .050 [1.27] X No. of Spaces

HRS-2C
.085" [2.15] HEIGHT



HRS-2C-26-GA

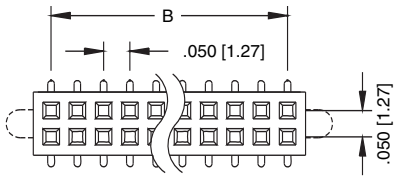


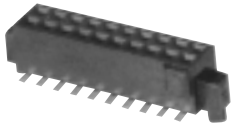


Recommended PCB Layout

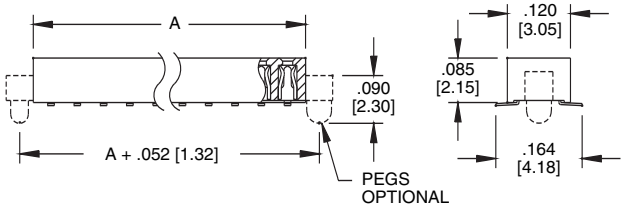
A = .050 [1.27] X No. of Positions + .018 [0.46]
B = .050 [1.27] X No. of Spaces

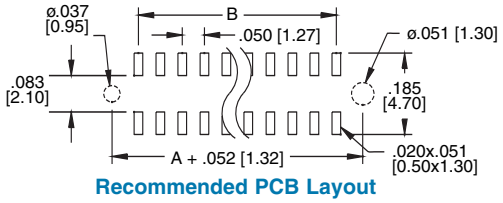
HRS-2C-SMT WITH END PEGS
.085" [2.15] HEIGHT





HRS-2C-20-SG-SMT-P

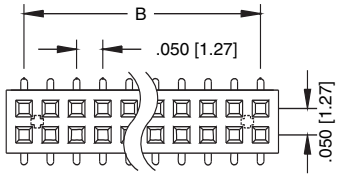




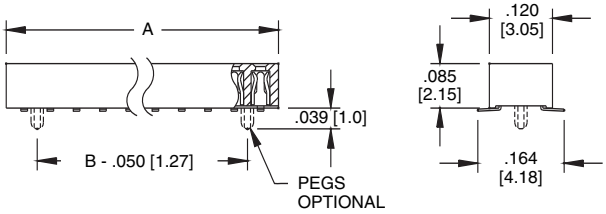
Recommended PCB Layout

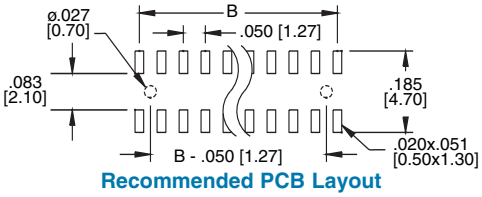
A = .050 [1.27] X No. of Positions + .018 [0.46]
B = .050 [1.27] X No. of Spaces

HRS-2C-SMT WITH UNDERSIDE PEGS BOTTOM ENTRY
.085" [2.15] HEIGHT



HRS-2C-20-SG-SMT





Recommended PCB Layout

A = .050 [1.27] X No. of Positions + .018 [0.46]
B = .050 [1.27] X No. of Spaces

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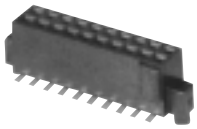
.050" RECEPTACLE STRIPS

.134" & .280" HEIGHT .050" [1.27] CENTERLINE

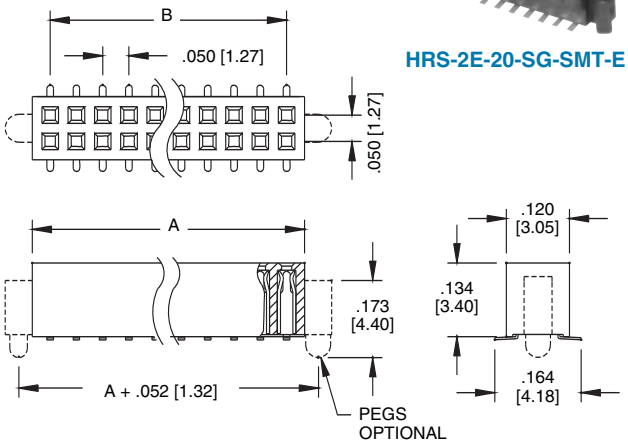
HRS SERIES

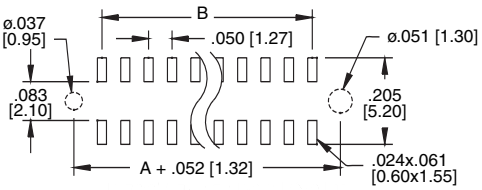
HRS-2E SMT W/ OPTIONAL PEG

A = .050 [1.27] X No. of Positions + .0
B = .050 [1.27] X No. of Spaces



HRS-2E-20-SG-SMT-E



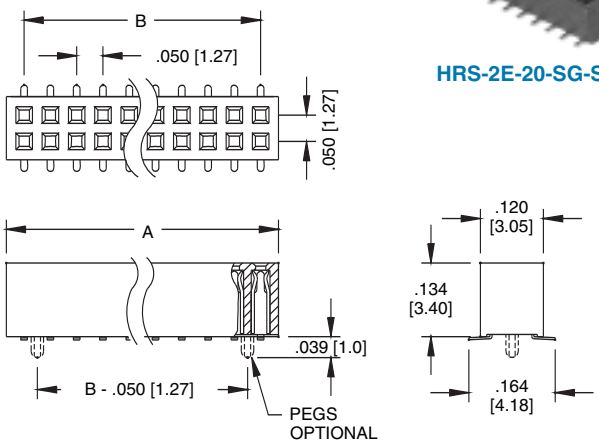


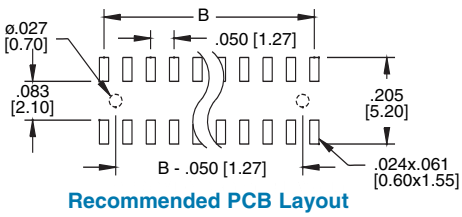
Recommended PCB Layout

HRS-2E SMT .134" [3.40] HIGH

A = .050 [1.27] X No. of Positions + .0
B = .050 [1.27] X No. of Spaces

HRS-2E-20-SG-SMT

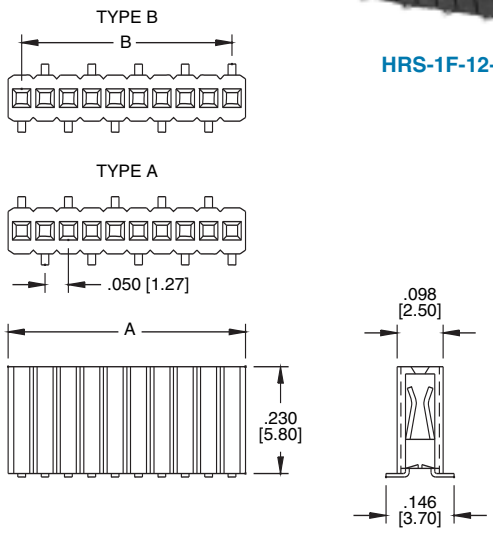




Recommended PCB Layout

HRS-1F-SMT

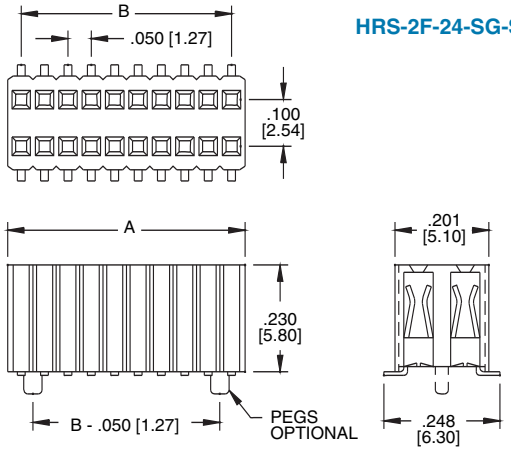
HRS-1F-12-SG-SMT-B



A = .050 [1.27] X No. of Positions + .008 [0.20]
B = .050 [1.27] X No. of Spaces

HRS-2F-SMT

HRS-2F-24-SG-SMT



A = .050 [1.27] X No. of Positions + .008 [0.20]
B = .050 [1.27] X No. of Spaces

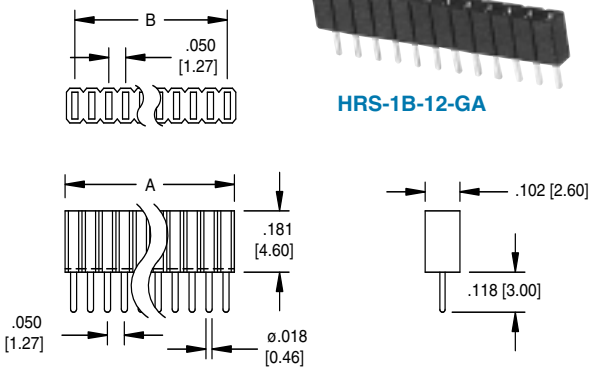
.050" RECEPTACLE STRIPS

.177", .181" & .335" HEIGHT

HRS SERIES

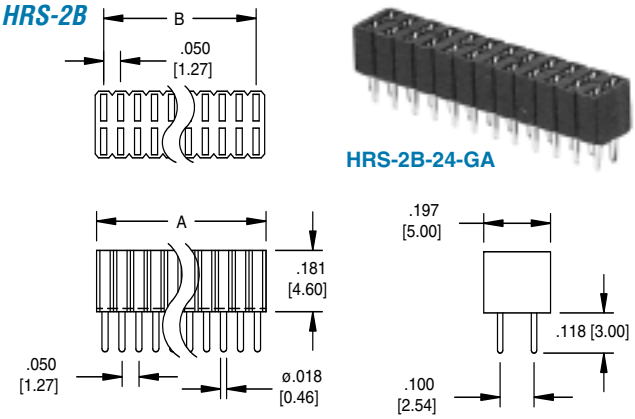
HRS-1B

HRS-1B-12-GA



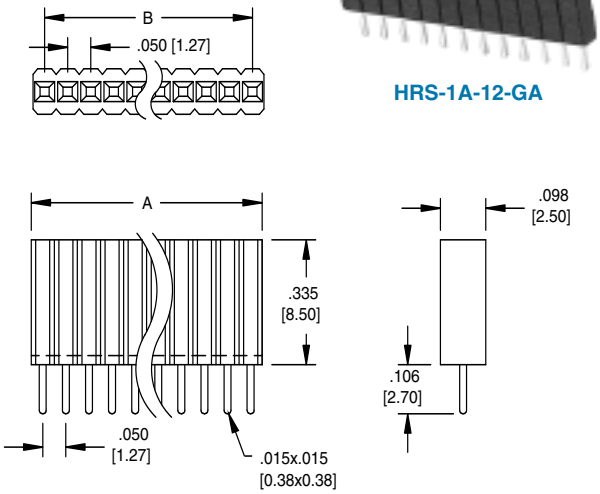
HRS-2B

HRS-2B-24-GA



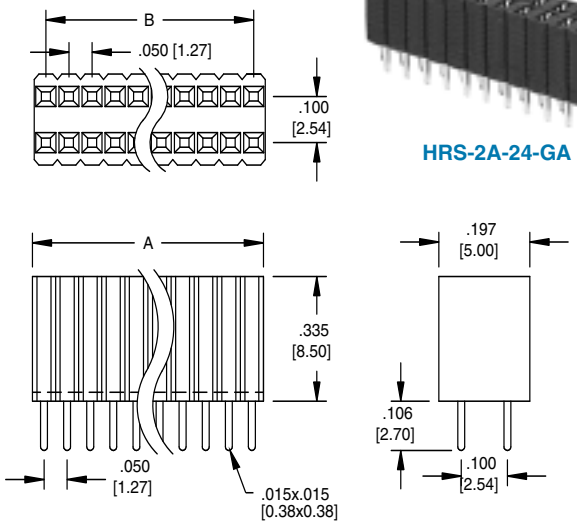
HRS-1A

HRS-1A-12-GA



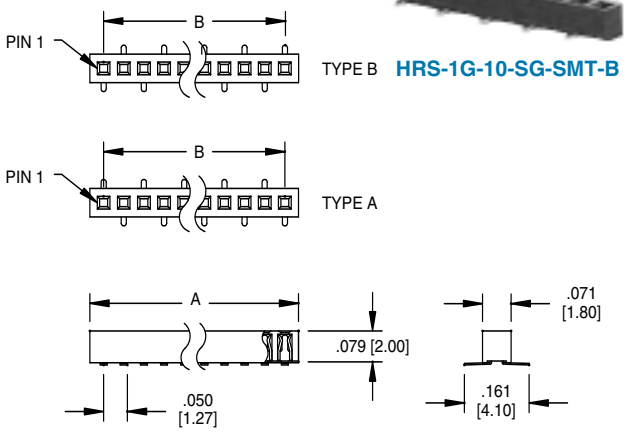
HRS-2A

HRS-2A-24-GA



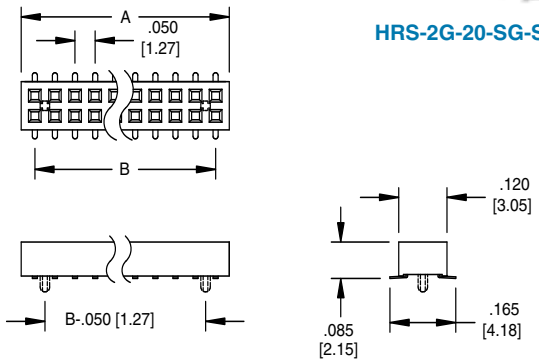
HRS-1G-SMT TOP ENTRY

HRS-1G-10-SG-SMT-B



HRS-2G-SMT TOP ENTRY

HRS-2G-20-SG-SMT



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