ADAM TECH
Adam Technologies, Inc.

.050" RECEPTACLE STRIPS

.050" [1.27] CENTERLINE

HRS SERIES

INTRODUCTION:
Adam Tech HRS Series .050" Receptacle Strips are 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 with 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: Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

Contact Plating:
G = Gold flash (30u" optional) over nickel underplate overall
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

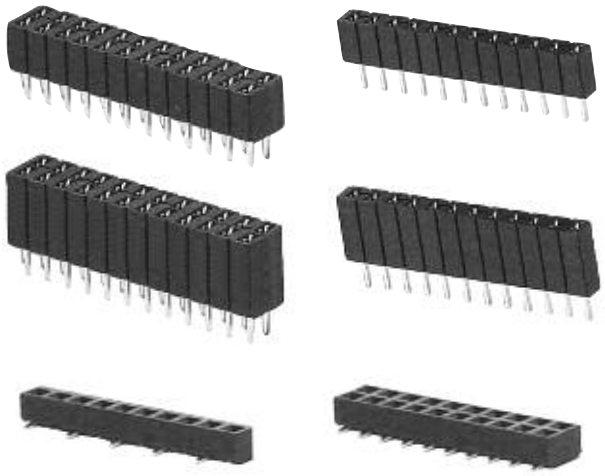
Mechanical:
Insertion force: 0.375 lbs per contact max.
Withdrawal force: 0.125 lbs per contact min.

Temperature rating:
Operating temperature: -40°C to +105°C

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

SAFETY AGENCY APPROVALS:
UL Recognized & CSA Certified, File no. E224053

c UL us
RoHS COMPLIANT
HI-TEMP INSULATOR 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
1C = Single Row, .085" Height
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) or PCB
2F = Dual Row, Low Profile .050"x.100"(SMT)
1F = Single Row (SMT) .228" Height
1G = Single Row, .079" Height, Top Entry, (SMT)
2E = Dual Row, .134" Height .050"x.050" (SMT or PCB)
2F = Dual Row, .230" Height .050"x.100"
2G = Dual Row, .085" Height .050"x.050" (SMT)

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 plated solder tails

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

OPTIONS:
Add designator(s) to end of part number
30 = 30 μin gold plating in contact area
P = Guide Pegs
E = End Pegs
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C *(Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)*

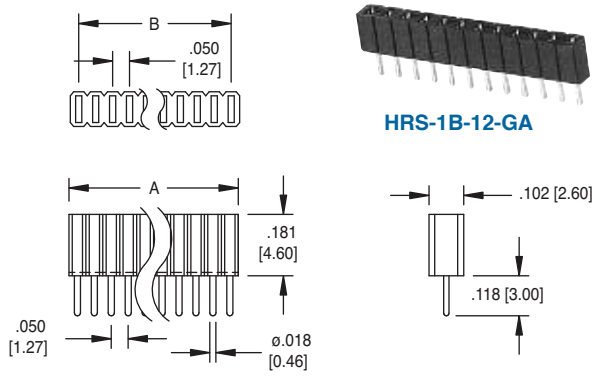
.050" RECEPTACLE STRIPS

.079", .085", .181" & .335" HEIGHT

HRS SERIES

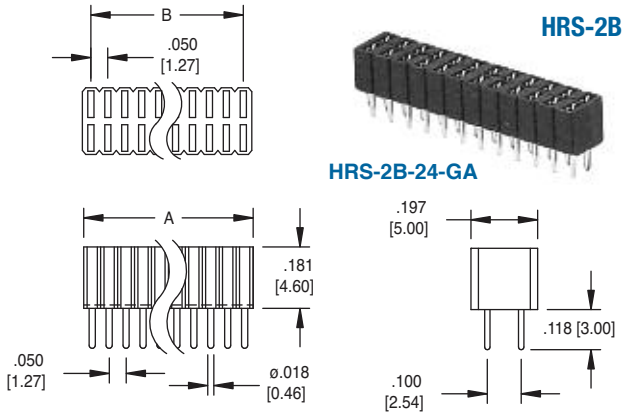
HRS-1B

HRS-1B-12-GA



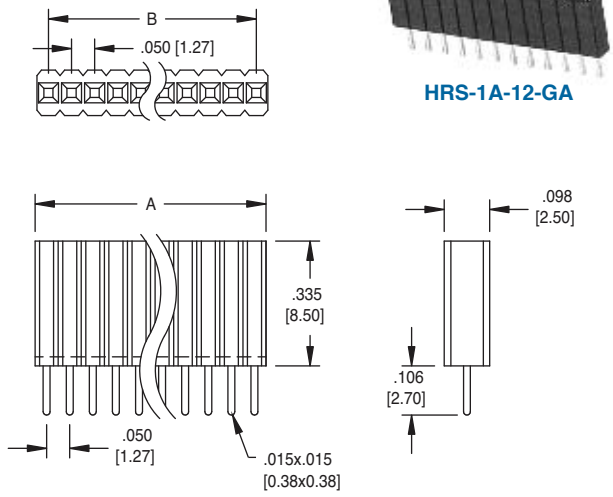
HRS-2B

HRS-2B-24-GA



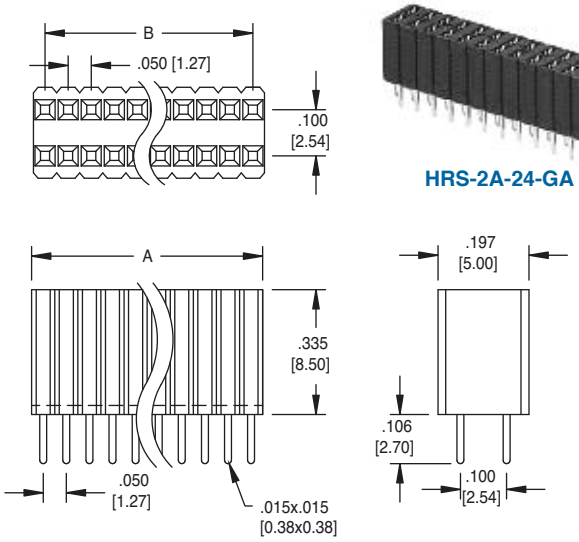
HRS-1A

HRS-1A-12-GA



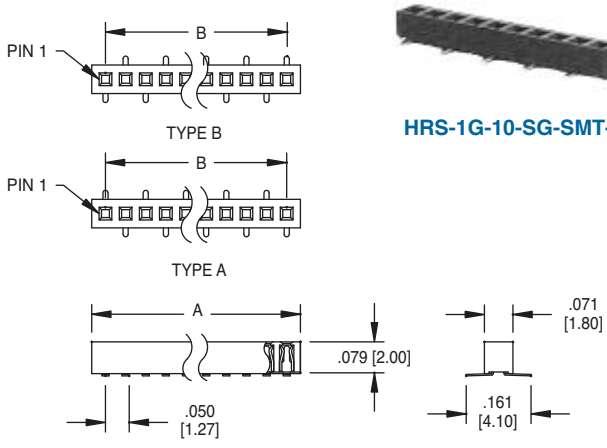
HRS-2A

HRS-2A-24-GA



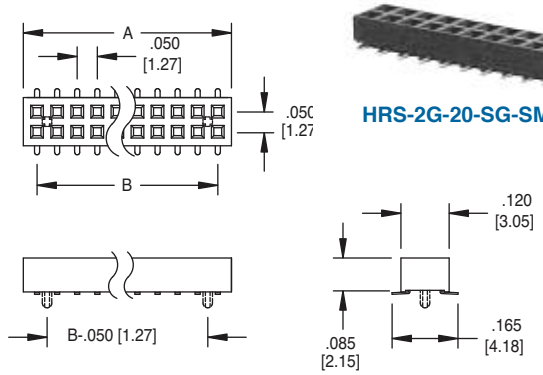
HRS-1G-SMT
TOP ENTRY

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



HRS-2G-SMT
TOP ENTRY

HRS-2G-20-SG-SMT-P

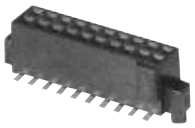


.050" RECEPTACLE STRIPS

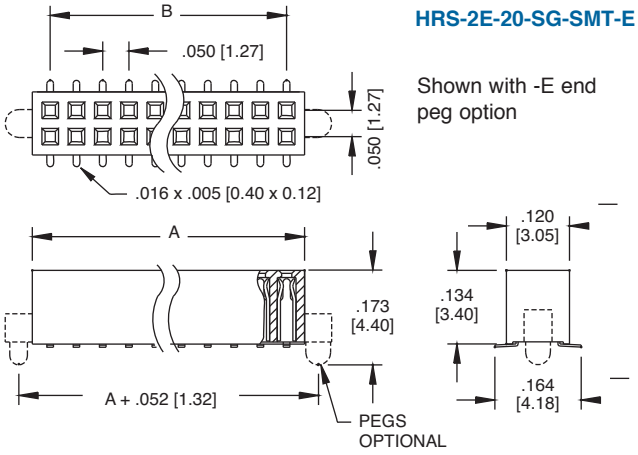
.134" & .228" HEIGHT .050" [1.27] CENTERLINE

HRS SERIES

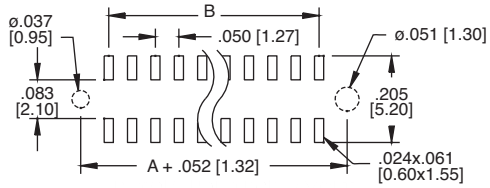
HRS-2E SMT
W/ OPTIONAL PEG



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



Shown with -E end peg option



Recommended PCB Layout

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

HRS-2E SMT

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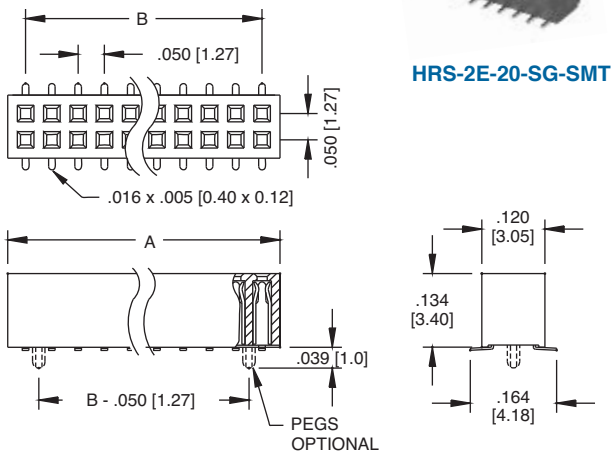
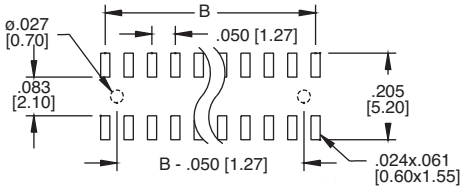
HRS-2E-20-SG-SMT

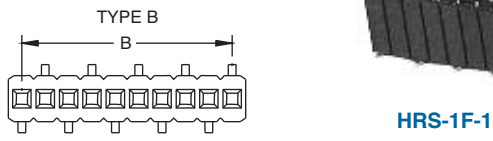




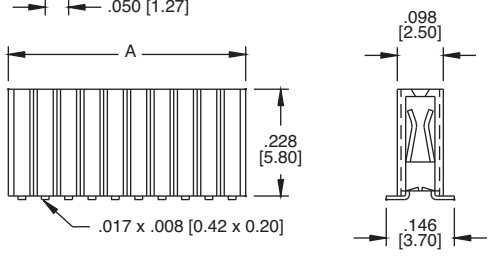
Recommended PCB Layout

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

HRS-1F-SMT



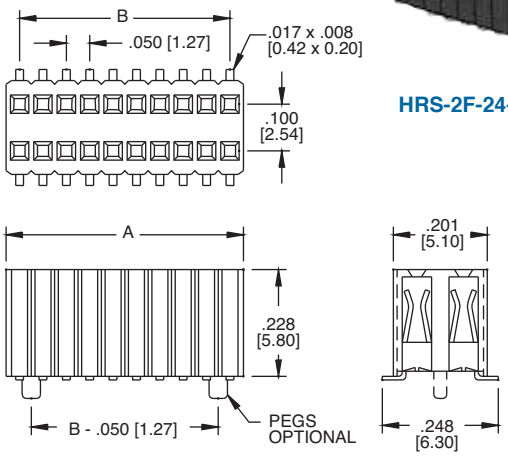
HRS-1F-12-SG-SMT-B



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 per row + .008 [0.20]
B = .050 [1.27] X No. of Spaces

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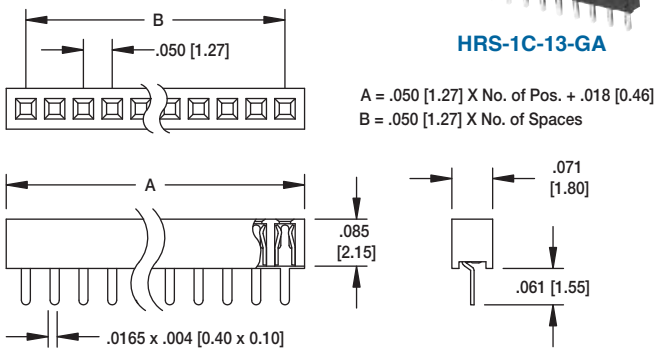
.050" RECEPTACLE STRIPS

.085" & .133" HEIGHT .050" [1.27] CENTERLINE

HRS SERIES

HRS-1C
SINGLE ROW

HRS-1C-13-GA



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

HRS-2C
DUAL ROW

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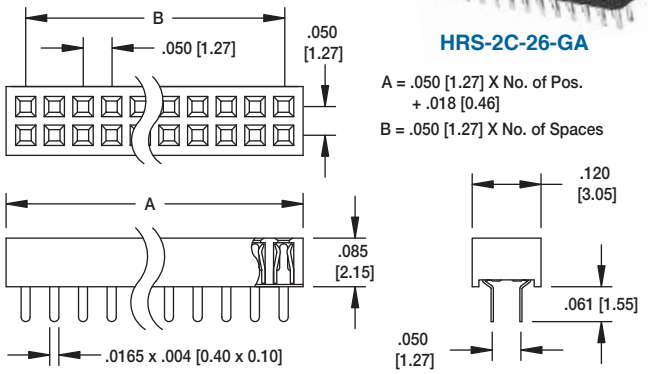
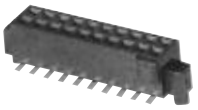
HRS-2C-26-GA

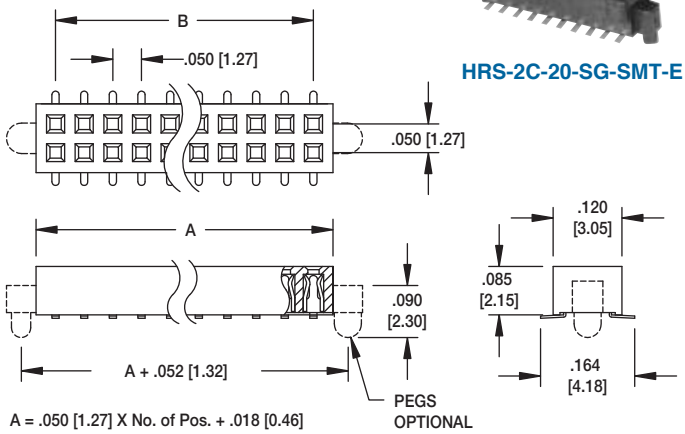


A = .050 [1.27] X No. of Pos. + .018 [0.46]
B = .050 [1.27] X No. of Spaces

HRS-2C-SMT
DUAL ROW WITH END PEGS



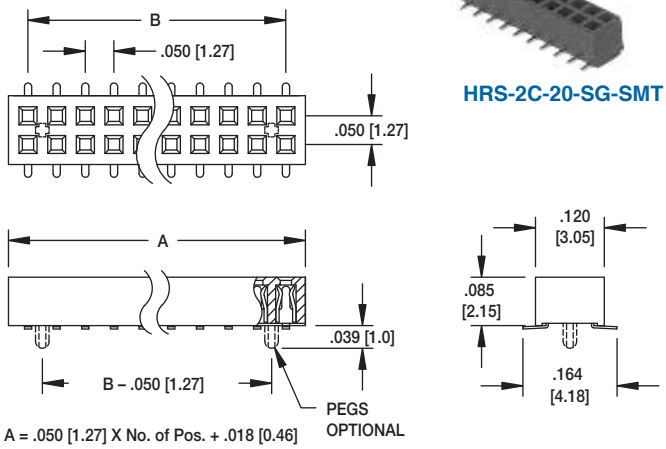
HRS-2C-20-SG-SMT-E



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

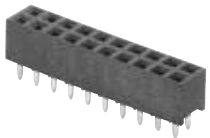
HRS-2C-SMT
DUAL ROW WITH UNDERSIDE PEGS

HRS-2C-20-SG-SMT

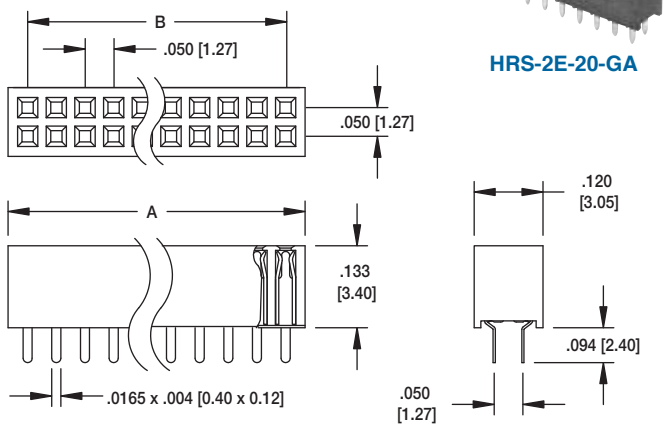


A = .050 [1.27] X No. of Pos. + .018 [0.46]
B = .050 [1.27] X No. of Spaces

HRS-2E
DUAL ROW

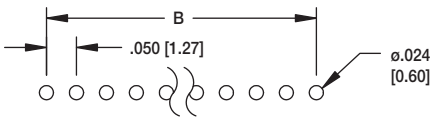


HRS-2E-20-GA

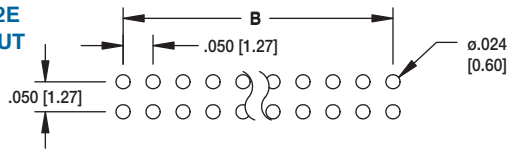


A = .050 [1.27] X No. of Pos. + .018 [0.46]
B = .050 [1.27] X No. of Spaces

HRS-1C PCB LAYOUT



HRS-2C & 2E PCB LAYOUT



HRS-2C SMT PCB LAYOUT