

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: PBT, glass reinforced, rated UL94V-0
Optional 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:

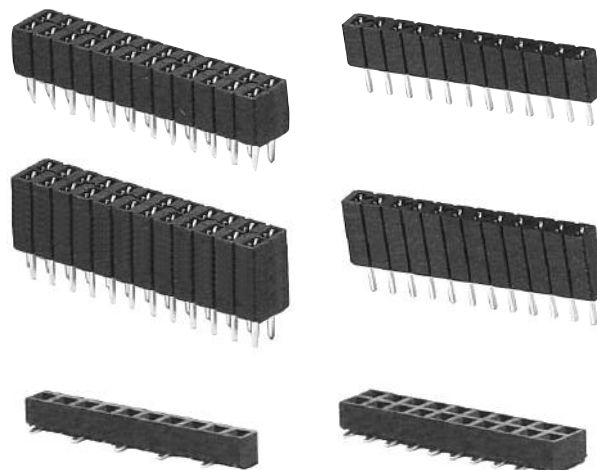
Operating temperature: -42°C to +105°C

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



ORDERING INFORMATION

HRS	1A	50	G	A
SERIES INDICATOR HRS = .050" Receptacle Strip				SOLDER TAIL LENGTH A = Standard solder tail for .062" - .125" PCB thickness SMT = Surface mount leads (profile 2C, 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)
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, .228" Height (SMT) 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.050" (SMT)				CONTACT PLATING G = Gold plated T = Tin plated SG = Gold plated contact area, tin plated solder tails
				NO. OF POSITIONS Single Row: 02 thru 40 Dual Row: 04 thru 80

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)