

#### INTRODUCTION:

Adam Tech MS Series Mini Shunts are available in .050", 2.0mm, .100" and .200" centerlines. They quickly and easily jump individual or strip pin headers to perform manual programming on PCB's. This series offers a broad range of sizes, shapes and colors. Shunts are designed with detents at top for easy fingertip installation and removal. Options include integrated pull tabs and gang types which are molded in one piece. This series is extremely low cost and is a highly economical, cost effective solution to replacing PCB switches. Adam Tech's shunts are available in Gold or Tin plating.

#### FEATURES:

- Electrically connects two pin header posts
- Wide variety of bodies and styles to choose from
- Superior insulator design provides easy Fingertip extraction
- Pull Tab and Ganged options available
- Choice of Gold or Tin-plated contact area
- Side and end stackable

#### MATING OPTIONS:

Mates with .025" sq. pin headers on .100" centers and all industry standard pin headers with .025" square post on .100" [2.54mm] centerlines.

#### SPECIFICATIONS:

##### Material:

Insulator: PBT, rated UL94V-0  
 Insulator Color: Black  
 Contacts: Phosphor Bronze

##### Contact Plating:

G = Gold flash (30u" optional) over nickel underplate overall  
 T = Tin over copper underplate overall

##### Electrical:

Operating voltage: 250V AC max.  
 Current rating: 3 Amps max  
 Contact resistance: 20 mΩ max. initial  
 Insulation resistance: 5000 MΩ min.  
 Dielectric withstanding voltage: 1000V AC for 1 minute

##### Mechanical:

Insertion force: 1.57 lbs max.  
 Withdrawal force: .65 lbs min  
 Mating durability: 50 Cycles Gold  
 20 Cycles Tin

##### Temperature Rating:

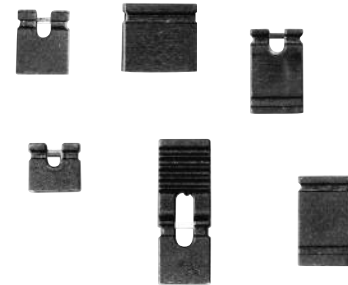
Operating temperature: -55°C to +105°C

##### PACKAGING:

Anti-ESD plastic bags

##### SAFETY AGENCY APPROVALS:

UL Recognized File No. E224053  
 CSA Certified File No. LR1578596



#### ORDERING INFORMATION

**MSB**

**G**

##### BODY STYLE/HEIGHT

**MSA** = Closed top, .256"  
**MSB** = Open top, .236"  
**MSC** = Open top, .177"  
**MSDA** = Closed top, .315"  
**MSDB** = Open top, .315"  
**MSBH** = Handle-top, .531"  
**HMSA** = .050" Mini Shunt  
**HMSB** = .050" Mini Shunt

##### PLATING

**G** = Gold plated  
**T** = Tin plated

**MSE** = Closed top, 3 position

**MST** = 10 piece strip

**MSBG** = Ganged, block type  
 (Specify # of positions, 2 thru 10)

2.00mm Shunts - Pg. 249

#### OPTIONS:

Add designator(s) to end of part number  
**30** = 30 μin gold plating in contact area

#### STANDARD INSULATOR COLOR IS BLACK

Other insulator colors available  
 Add designator(s) to end of part number

**R** = Red \*

**B** = Blue \*

**W** = White \*

**Y** = Yellow \*

**G** = Green \*

\* Minimum order required