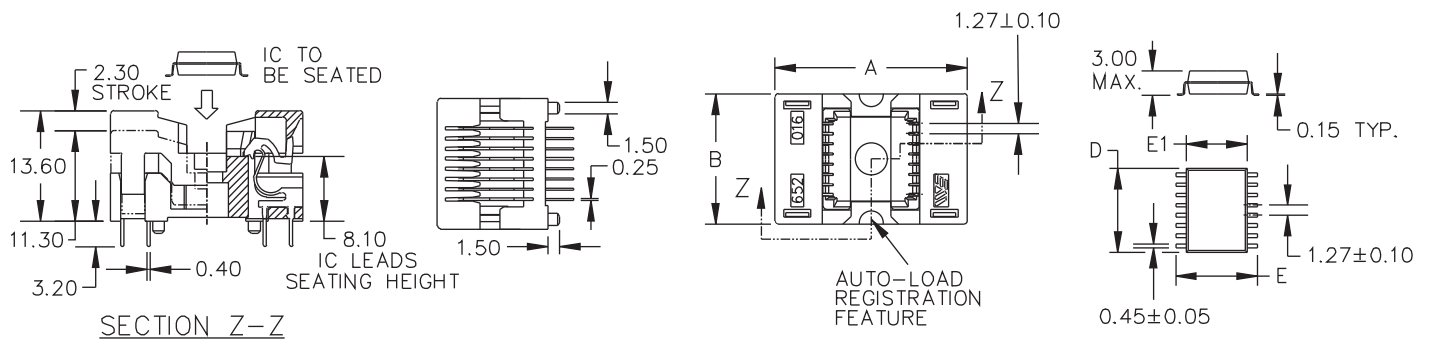
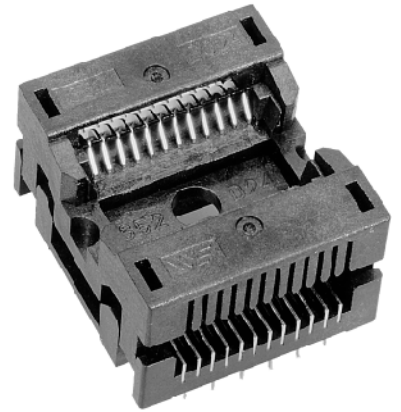




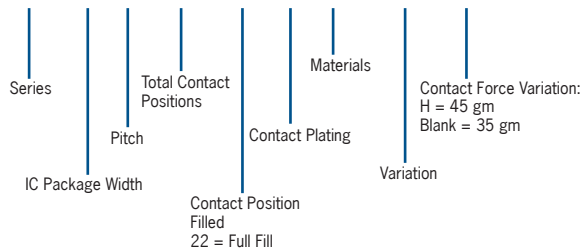
# 652 SERIES SOP ZIF

- Open top, zero insertion force design for automatic loading
- Compact size for high board density
- Highly reliable, pre-loaded contacts
- Thru hole design
- High force contact version (H) available for Pb-free devices (single beam type)



## DESCRIPTION & ORDERING INFORMATION

**652 X X XX XX X X - XXX X**



## MATERIALS & SPECIFICATIONS

- Socket Body: PES, PEI, LCP or Equivalent
- Contact: Beryllium Copper Alloy
- Contact Plating: Gold over Nickel
- Contact Normal Force: 35~45 grams
- Contact Resistance: 50 mΩ
- Dielectric: 600V AC for 1 minute
- Temperature Rating: 150°C
- Insulation Resistance: 5,000 MΩ @ 500V DC
- Durability: 10,000 cycles min.



# 652 SERIES SOP ZIF

| Lead Count | Pitch e (mm) | Package Dimensions (mm) |                     |            | Part Number         | Socket Dimensions (mm) |           |
|------------|--------------|-------------------------|---------------------|------------|---------------------|------------------------|-----------|
|            |              | Width (E1)              | Lead Tip to Tip (E) | Length (D) |                     | Length (A)             | Width (B) |
| 8          | 1.27         | 4.40                    | 6.40                | 5.4 max    | 652B0082211 (H)     | 20.75                  | 12.37     |
| 8          | 1.27         | 5.00                    | 6.80                | 5.4 max    | 652B0082211-001 (H) | 20.75                  | 12.37     |
| 8          | 1.27         | 3.90                    | 6.00                | 5.4 max    | 652B0082211-002 (H) | 20.75                  | 12.37     |
| 8          | 1.27         | 4.40                    | 6.40                | 5.35 max   | 652B0082211-003 (H) | 20.75                  | 12.37     |
| 8          | 1.27         | 5.23                    | 8.00                | 5.23       | * 652C0082211W      | 17.20                  | 12.80     |
| 8          | 1.27         | 5.30                    | 7.90                | 5.30       | * 652C0082211W003   | 17.20                  | 12.80     |
| 14         | 1.27         | 4.40                    | 6.40                | 10.48 max  | 652B0142211 (H)     | 20.75                  | 16.18     |
| 14         | 1.27         | 5.00                    | 6.80                | 10.48 max  | 652B0142211-001 (H) | 20.75                  | 16.18     |
| 14         | 1.27         | 3.90                    | 6.00                | 10.48 max  | 652B0142211-002 (H) | 20.75                  | 16.18     |
| 16         | 1.27         | 4.40                    | 6.40                | 10.48 max  | 652B0162211 (H)     | 20.75                  | 17.45     |
| 16         | 1.27         | 5.00                    | 6.80                | 10.48 max  | 652B0162211-001 (H) | 20.75                  | 17.45     |
| 16         | 1.27         | 3.90                    | 6.00                | 10.48 max  | 652B0162211-002 (H) | 20.75                  | 17.45     |
| 16         | 1.27         | 3.90                    | 6.00                | 10.48 max  | 652B0162211E002 (H) | 20.75                  | 17.45     |
| 16         | 1.27         | 7.60                    | 10.20               | 10.5 max   | 652-0162211-001 (H) | 24.00                  | 16.32     |
| 16         | 1.27         | 7.60                    | 10.20               | 10.5 max   | 652-0162211E001 (H) | 24.00                  | 16.32     |
| 16         | 1.27         | 7.50                    | 10.40               | 10.5 max   | 652D0162211-202 (H) | 24.30                  | 16.32     |
| 16         | 1.27         | 7.50                    | 10.30               | 10.45 max  | 652D0162211E202 (H) | 24.30                  | 16.32     |
| 16         | 1.27         | 7.50                    | 10.40               | 11.02 max  | * 652D0162212W501   | 24.00                  | 16.32     |
| 18         | 1.27         | 7.55                    | 10.40               | 12 max     | 652D0201811-001 (H) | 24.30                  | 18.86     |
| 18         | 1.27         | 8.80                    | 11.83               | 12.3 max   | 652E0182211 (H)     | 25.90                  | 18.05     |
| 20         | 1.27         | 7.55                    | 10.40               | 13.11 max  | 652D0202211 (H)     | 24.30                  | 18.86     |
| 20         | 1.27         | 7.55                    | 10.40               | 13.11 max  | 652D0202211-001 (H) | 24.30                  | 18.86     |
| 20         | 1.27         | 7.55                    | 10.40               | 13.11 max  | * 652D0202212W001   | 24.30                  | 18.86     |
| 20         | 1.27         | 7.50                    | 10.30               | 12.8 max   | 652D0202211-002 (H) | 24.30                  | 18.86     |
| 20         | 1.27         | 7.50                    | 10.30               | 12.8 max   | 652D0202211-202 (H) | 24.30                  | 18.86     |
| 24         | 1.27         | 7.60                    | 10.20               | 15.6 max   | 652-0242211 (H)     | 24.00                  | 21.40     |
| 24         | 1.27         | 7.60                    | 10.20               | 15.6 max   | 652-0242211E (H)    | 24.00                  | 21.40     |
| 24         | 1.27         | 7.60                    | 10.20               | 15.6 max   | 652-0242211-001 (H) | 24.00                  | 21.40     |
| 24         | 1.27         | 7.60                    | 10.20               | 15.6 max   | 652-0242211E001 (H) | 24.00                  | 21.40     |
| 24         | 1.27         | 7.55                    | 10.47               | 15.65 max  | 652D0242211 (H)     | 24.30                  | 21.40     |
| 24         | 1.27         | 7.55                    | 10.31               | 15.65 max  | 652D0242211-002 (H) | 24.30                  | 21.40     |
| 28         | 1.27         | 7.55                    | 10.47               | 18.19 max  | 652D0282211 (H)     | 24.30                  | 23.94     |
| 28         | 1.27         | 7.55                    | 10.30               | 18.20 max  | 652D0282211-001 (H) | 24.30                  | 23.94     |
| 28         | 1.27         | 7.50                    | 10.30               | 18.05 max  | 652D0282211-002 (H) | 24.30                  | 23.94     |
| 28         | 1.27         | 7.50                    | 10.30               | 18.05 max  | 652D0282211-202 (H) | 24.30                  | 23.94     |
| 28         | 1.27         | 7.50                    | 10.30               | 18.05 max  | 652D0282211E202 (H) | 24.30                  | 23.94     |
| 28         | 1.27         | 8.40                    | 11.83               | 18.65 max  | 652E0282211 (H)     | 25.90                  | 24.40     |
| 28         | 1.27         | 8.40                    | 11.80               | 18.75 max  | 652E0282211-001 (H) | 25.90                  | 24.40     |
| 28         | 1.27         | 8.40                    | 11.83               | 18.65 max  | 652E0282211-002 (H) | 25.90                  | 24.40     |
| 32         | 1.27         | 7.55                    | 10.57               | 20.73 max  | 652D0322211 (H)     | 24.30                  | 26.48     |
| 32         | 1.27         | 7.55                    | 10.57               | 20.73 max  | 652D0322211-001 (H) | 24.30                  | 26.48     |
| 32         | 1.27         | 7.51                    | 10.47               | 20.88 max  | * 652D0322211W      | 18.50                  | 26.30     |
| 32         | 1.27         | 11.00                   | 14.04               | 20.85 max  | 652F0322211 (H)     | 28.00                  | 26.50     |
| 40         | 1.27         | 10.70                   | 14.04               | 26.15 max  | 652F0402211 (H)     | 28.00                  | 31.58     |
| 40         | 1.27         | 10.70                   | 14.04               | 26.15 max  | 652F0402211-001 (H) | 28.00                  | 31.58     |
| 44         | 1.27         | 12.60                   | 16.04               | 28.5 max   | 652G0442211 (H)     | 30.00                  | 34.30     |
| 44         | 1.27         | 12.60                   | 16.04               | 28.5 max   | 652G0442211-001 (H) | 30.00                  | 34.30     |
| 44         | 1.27         | 12.60                   | 16.04               | 28.5 max   | 652G0442211-002 (H) | 30.00                  | 34.30     |

\* Dual contact points (Compatible with Pb free packages)  
(H) = Compatible with Pb free packages