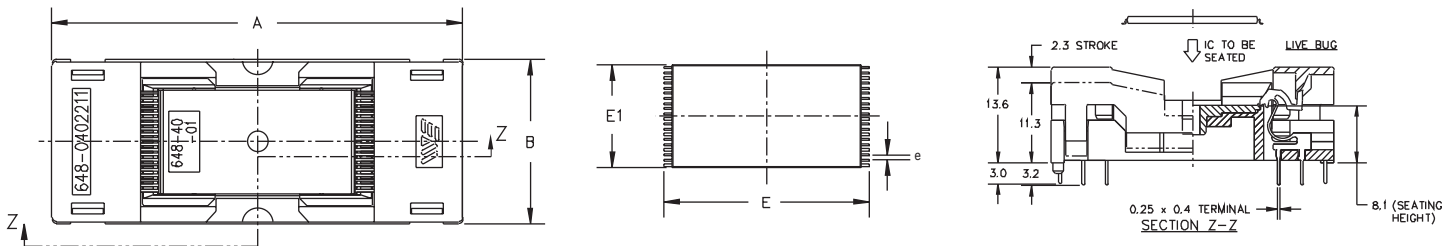
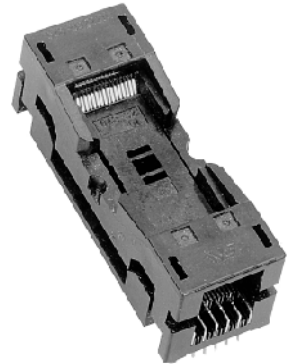


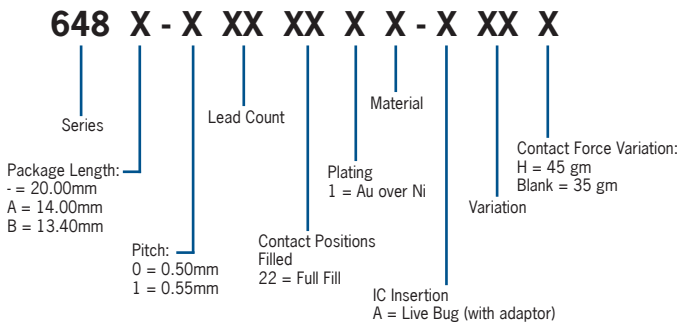


# 648 SERIES TSOP-I

- Available live bug with adaptor
- Open top, Zero Insertion Force design for automatic loading
- Highly reliable, pre-loaded contacts
- Thru hole design
- High force contact version (H) available for Pb- free devices



## DESCRIPTION & ORDERING INFORMATION



## MATERIALS & SPECIFICATIONS

- Socket Body: PES, PEI, LCP or Equivalent
- Contact: Beryllium Copper Alloy
- Contact Plating: Gold over Nickel
- Contact Normal Force: 45~55 grams
- Contact Resistance: 50 mΩ
- Dielectric: 600V AC RMS for 1 minute
- Temperature Rating: 150°C
- Insulation Resistance: 5,000 MΩ @ 500V DC
- Durability: 10,000 cycles min.

| Lead Count | Pitch e (mm) | Package Dimensions (mm) |                | Part Number           | Adaptor   | Socket Dimensions (mm) |           |
|------------|--------------|-------------------------|----------------|-----------------------|-----------|------------------------|-----------|
|            |              | Width (E1)              | Tip to Tip (E) |                       |           | Length (A)             | Width (B) |
| 28         | 0.55         | 8.00                    | 13.40          | 648-1282211-A01 (H)   | 648-28-01 | 33.40                  | 14.00     |
| 32         | 0.50         | 8.00                    | 20.00          | 648-0322211-A01 (H)   | 648-32-01 | 40.00                  | 14.00     |
| 32         | 0.50         | 8.00                    | 14.00          | 648A0322211-A01 (H)   | 648A32-01 | 34.00                  | 14.00     |
| 32         | 0.50         | 8.00                    | 13.40          | * 648B0322211 (H)     | n/a       | 33.40                  | 14.00     |
| 40         | 0.50         | 10.00                   | 20.00          | 648-0402211-A01 (H)   | 648-40-01 | 40.00                  | 16.00     |
| 40         | 0.50         | 10.00                   | 14.00          | 648A0402211-A01 (H)   | 648A40-01 | 34.00                  | 16.00     |
| 48         | 0.50         | 12.00                   | 20.00          | 648-0482211-A01 (H)   | 648-48-01 | 40.00                  | 18.00     |
| 48         | 0.50         | 12.00                   | 20.00          | * 648-0482211SA01 (H) | n/a       | 40.00                  | 18.00     |
| 56         | 0.50         | 14.00                   | 20.00          | 648-0562211-A01 (H)   | 648-56-01 | 40.00                  | 20.00     |

\* Without adaptor  
 (H) = Compatible with Pb free packages