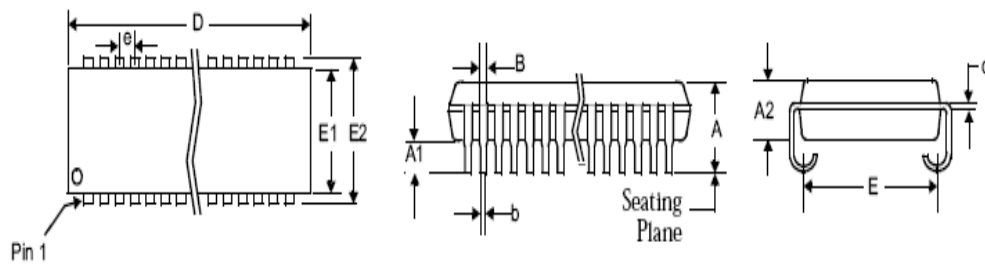




Plastic small outline J-bend (SOJ)

| | 20/26-pin 300 mil | | 24/26-pin 300 mil | | 28-pin 300 mil | | 32-pin 300 mil | | 28-pin 400 mil | | 32-pin 400 mil | | 36-pin 400 mil | | 40-pin 400 mil | | 42-pin 400 mil | | 44-pin 400 mil | |
|----|----------------------|-------|----------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| A | - | 0.140 | - | 0.148 | - | 0.140 | - | 0.145 | 0.132 | 0.146 | - | 0.145 | - | 0.148 | - | 0.145 | 0.128 | 0.148 | 0.128 | 0.148 |
| A1 | 0.020 | - | 0.026 | - | 0.025 | - | 0.025 | - | 0.062 | - | 0.025 | - | 0.027 | - | 0.025 | - | 0.025 | - | 0.025 | - |
| A2 | 0.095 | 0.105 | 0.106 | NOM | 0.095 | 0.105 | 0.086 | 0.105 | 0.105 | 0.115 | 0.086 | 0.115 | 0.102 | NOM | 0.086 | 0.115 | 0.105 | 0.115 | 0.105 | 0.115 |
| B | 0.025 | 0.032 | 0.015 | 0.020 | 0.028 | TYP | 0.026 | 0.032 | 0.024 | 0.032 | 0.026 | 0.032 | 0.026 | 0.032 | 0.026 | 0.032 | 0.026 | 0.032 | 0.026 | 0.032 |
| b | 0.016 | 0.022 | 0.028 | NOM | 0.018 | TYP | 0.014 | 0.020 | 0.013 | 0.021 | 0.015 | 0.020 | 0.013 | 0.021 | 0.015 | 0.022 | 0.015 | 0.020 | 0.015 | 0.020 |
| c | 0.008 | 0.014 | 0.006 | 0.008 | 0.010 | TYP | 0.006 | 0.013 | 0.005 | 0.012 | 0.007 | 0.013 | 0.006 | 0.012 | 0.007 | 0.014 | 0.007 | 0.013 | 0.007 | 0.013 |
| D | - | 0.686 | 0.670 | 0.680 | - | 0.730 | 0.820 | 0.830 | 0.720 | 0.729 | 0.820 | 0.830 | 0.920 | 0.930 | 1.020 | 1.035 | 1.070 | 1.080 | 1.120 | 1.130 |
| E | 0.245 | 0.285 | 0.255 | 0.275 | 0.245 | 0.285 | 0.250 | 0.275 | 0.354 | 0.378 | 0.360 | 0.380 | 0.350 | 0.390 | 0.348 | 0.390 | 0.370 | NOM | 0.370 | NOM |
| E1 | 0.295 | 0.305 | 0.295 | 0.305 | 0.295 | 0.305 | 0.292 | 0.305 | 0.395 | 0.405 | 0.395 | 0.405 | 0.400 | NOM | 0.390 | 0.410 | 0.395 | 0.405 | 0.395 | 0.405 |
| E2 | 0.327 | 0.347 | 0.328 | 0.339 | 0.327 | 0.347 | 0.330 | 0.340 | 0.430 | 0.440 | 0.435 | 0.445 | 0.435 | 0.445 | 0.435 | 0.445 | 0.435 | 0.445 | 0.435 | 0.445 |
| e | 0.050 BSC | | 0.050 BSC | | 0.050 BSC | | 0.050 BSC | | 0.050 BSC | | 0.050 BSC | | 0.045 | 0.055 | 0.050 BSC | | 0.050 NOM | | 0.050 NOM | |

Dimensions in inches





Thin small outline package (TSOP-I)

| | 28-pin 8×13.4 | | 32-pin 8×20 | | 40-pin 10×20 | | 48-pin 12×20 | |
|----------|------------------|-------|----------------|-------|-----------------|-------|-----------------|-------|
| | Min | Max | Min | Max | Min | Max | Min | Max |
| A | - | 1.20 | - | 1.20 | - | 1.20 | - | 1.27 |
| A1 | 0.10 | 0.20 | 0.05 | 0.15 | 0.05 | 0.15 | 0.05 | 0.15 |
| A2 | 0.95 | 1.05 | 0.95 | 1.05 | 0.95 | 1.05 | 0.95 | 1.05 |
| b | 0.15 | 0.25 | 0.17 | 0.27 | 0.17 | 0.27 | 0.17 | 0.27 |
| c | 0.10 | 0.20 | 0.10 | 0.21 | 0.10 | 0.21 | 0.15 nominal | |
| D | 11.60 | 11.80 | 18.20 | 18.60 | 18.20 | 18.60 | 18.20 | 18.60 |
| e | 0.55 nominal | | 0.50 nominal | | 0.50 nominal | | 0.50 nominal | |
| E | 8.0 nominal | | 7.80 | 8.20 | 9.90 | 10.10 | 11.90 | 12.10 |
| Hd | 13.30 | 13.50 | 19.80 | 20.20 | 19.80 | 20.20 | 19.80 | 20.20 |
| L | 0.50 | 0.70 | 0.50 | 0.70 | 0.50 | 0.70 | 0.50 | 0.70 |
| α | 0° | 5° | 0° | 5° | 0° | 5° | 0° | 5° |

Dimensions in millimeters

