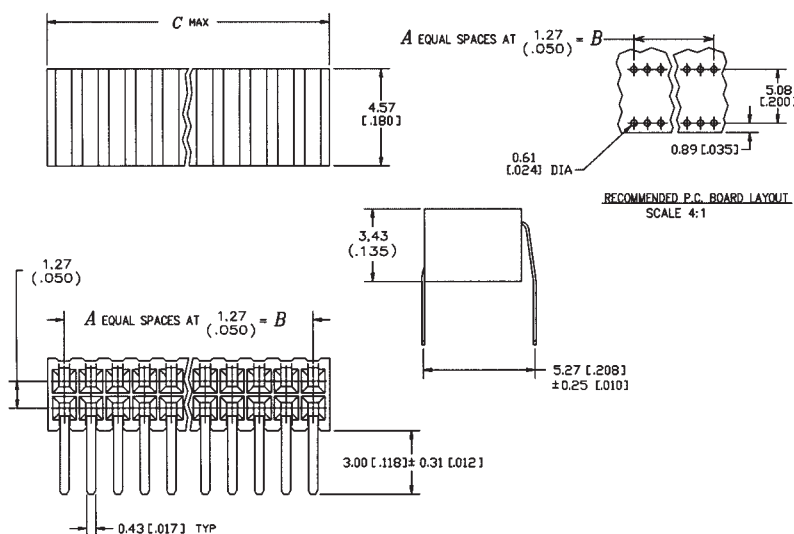


# Torson 0.050" 1.27mm



## 20-5016-2XXX-20-001 – Receptacle - Right Angle

| Part Number         | No. of Positions | A  | B                | C Max.           | Qty. Per Tube |
|---------------------|------------------|----|------------------|------------------|---------------|
| 20 5016 2004 20 001 | 4                | 1  | 1.27<br>(0.050)  | 2.84<br>(0.112)  | 200           |
| ↑ ↑ 2006 ↑ ↑        | 6                | 2  | 2.54<br>(0.100)  | 4.11<br>(0.162)  | 138           |
| 2008                | 8                | 3  | 3.81<br>(0.150)  | 5.38<br>(0.212)  | 105           |
| 2010                | 10               | 4  | 5.08<br>(0.200)  | 6.65<br>(0.262)  | 85            |
| 2012                | 12               | 5  | 6.35<br>(0.250)  | 7.92<br>(0.312)  | 71            |
| 2014                | 14               | 6  | 7.62<br>(0.300)  | 9.19<br>(0.362)  | 62            |
| 2016                | 16               | 7  | 8.89<br>(0.350)  | 10.46<br>(0.412) | 54            |
| 2018                | 18               | 8  | 10.16<br>(0.400) | 11.73<br>(0.462) | 48            |
| 2020                | 20               | 9  | 11.43<br>(0.450) | 13.00<br>(0.512) | 43            |
| 2022                | 22               | 10 | 12.70<br>(0.500) | 14.27<br>(0.562) | 39            |
| 2024                | 24               | 11 | 13.97<br>(0.550) | 15.54<br>(0.612) | 36            |
| 2026                | 26               | 12 | 15.24<br>(0.600) | 16.81<br>(0.662) | 33            |
| 2028                | 28               | 13 | 16.51<br>(0.650) | 18.08<br>(0.712) | 31            |
| 2030                | 30               | 14 | 17.78<br>(0.700) | 19.35<br>(0.762) | 29            |
| 2032                | 32               | 15 | 19.05<br>(0.750) | 20.62<br>(0.812) | 27            |
| 2034                | 34               | 16 | 20.32<br>(0.800) | 21.89<br>(0.862) | 26            |
| 2036                | 36               | 17 | 21.59<br>(0.850) | 23.16<br>(0.912) | 24            |
| 2038                | 38               | 18 | 22.86<br>(0.900) | 24.43<br>(0.962) | 23            |
| 2040                | 40               | 19 | 24.13<br>(0.950) | 25.70<br>(1.012) | 22            |
| 2042                | 42               | 20 | 25.40<br>(1.000) | 26.97<br>(1.062) | 21            |
| 2044                | 44               | 21 | 26.67<br>(1.050) | 28.24<br>(1.112) | 20            |
| 2046                | 46               | 22 | 27.94<br>(1.100) | 29.51<br>(1.162) | 19            |
| ↓ ↓ 2048 ↓ ↓        | 48               | 23 | 29.21<br>(1.150) | 30.78<br>(1.212) | 18            |
| 20 5016 2050 20 001 | 50               | 24 | 30.48<br>(1.200) | 32.05<br>(1.262) | 17            |
| 20 5016 2052 20 001 | 52               | 25 | 31.75<br>(1.250) | 33.32<br>(1.312) | 17            |
| ↑ ↑ 2054 ↑ ↑        | 54               | 26 | 33.02<br>(1.300) | 34.59<br>(1.362) | 16            |
| 2056                | 56               | 27 | 34.29<br>(1.350) | 35.86<br>(1.412) | 15            |
| 2058                | 58               | 28 | 35.56<br>(1.400) | 37.13<br>(1.462) | 15            |
| 2060                | 60               | 29 | 36.83<br>(1.450) | 38.40<br>(1.512) | 14            |
| 2062                | 62               | 30 | 38.10<br>(1.500) | 39.67<br>(1.562) | 14            |
| 2064                | 64               | 31 | 39.37<br>(1.550) | 40.94<br>(1.612) | 13            |
| 2066                | 66               | 32 | 40.64<br>(1.600) | 42.21<br>(1.662) | 13            |
| 2068                | 68               | 33 | 41.91<br>(1.650) | 43.48<br>(1.712) | 13            |
| 2070                | 70               | 34 | 43.18<br>(1.700) | 44.75<br>(1.762) | 12            |
| 2072                | 72               | 35 | 44.45<br>(1.750) | 46.02<br>(1.812) | 12            |
| 2074                | 74               | 36 | 45.72<br>(1.800) | 47.29<br>(1.862) | 12            |
| 2076                | 76               | 37 | 46.99<br>(1.850) | 48.56<br>(1.912) | 11            |
| 2078                | 78               | 38 | 48.26<br>(1.900) | 49.83<br>(1.962) | 11            |
| 2080                | 80               | 39 | 49.53<br>(1.950) | 51.10<br>(2.012) | 11            |
| 2082                | 82               | 40 | 50.80<br>(2.000) | 52.37<br>(2.062) | 10            |
| 2084                | 84               | 41 | 52.07<br>(2.050) | 53.64<br>(2.112) | 10            |
| 2086                | 86               | 42 | 53.34<br>(2.100) | 54.91<br>(2.162) | 10            |
| 2088                | 88               | 43 | 54.61<br>(2.150) | 56.18<br>(2.212) | 10            |
| 2090                | 90               | 44 | 55.88<br>(2.200) | 57.45<br>(2.262) | 9             |
| 2092                | 92               | 45 | 57.15<br>(2.250) | 58.72<br>(2.312) | 9             |
| 2094                | 94               | 46 | 58.42<br>(2.300) | 59.99<br>(2.362) | 9             |
| 2096                | 96               | 47 | 59.69<br>(2.350) | 61.26<br>(2.412) | 9             |
| 2098                | 98               | 48 | 60.96<br>(2.400) | 62.53<br>(2.462) | 9             |
| ↓ ↓ 2100 ↓ ↓        | 100              | 49 | 62.23<br>(2.450) | 63.80<br>(2.512) | 8             |
| 20 5016 2102 20 001 | 102              | 50 | 63.50<br>(2.500) | 65.07<br>(2.562) | 8             |



### Specifications

- Insulator Material – High temperature thermoplastic (UL 94 V-O)
- Contact Material – copper alloy
- Contact Plating – .000030–.000080 (0.00076–0.00203) nickel underplate all over  
.000015 (0.00038) min. gold in mating area  
.000075–.000150 (0.00191–0.00381) tin/lead on tails

### ORDERING CODE

PART NO. 20 5016 2XXX 20 0X1  
 SERIES \_\_\_\_\_  
 NO. OF WAYS \_\_\_\_\_  
 RIGHT ANGLE \_\_\_\_\_

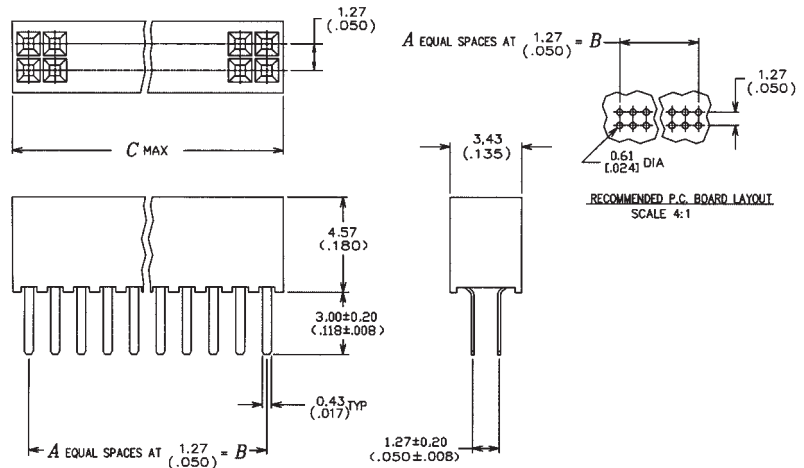
0 = Standard Tube Packaging  
 8 = Tape and Reel

# Torson 0.050" 1.27mm



## 20-5016-2XXX-10-001 – Receptacle - Straight

| Part Number         | No. of Positions | A  | B                | C Max.           | Qty. Per Tube |
|---------------------|------------------|----|------------------|------------------|---------------|
| 20 5016 2004 10 001 | 4                | 1  | 1.27<br>(0.050)  | 2.84<br>(0.112)  | 200           |
| ↑ ↑ 2006 ↑ ↑        | 6                | 2  | 2.54<br>(0.100)  | 4.11<br>(0.162)  | 138           |
| 2008                | 8                | 3  | 3.81<br>(0.150)  | 5.38<br>(0.212)  | 105           |
| 2010                | 10               | 4  | 5.08<br>(0.200)  | 6.65<br>(0.262)  | 85            |
| 2012                | 12               | 5  | 6.35<br>(0.250)  | 7.92<br>(0.312)  | 71            |
| 2014                | 14               | 6  | 7.62<br>(0.300)  | 9.19<br>(0.362)  | 62            |
| 2016                | 16               | 7  | 8.89<br>(0.350)  | 10.46<br>(0.412) | 54            |
| 2018                | 18               | 8  | 10.16<br>(0.400) | 11.73<br>(0.462) | 48            |
| 2020                | 20               | 9  | 11.43<br>(0.450) | 13.00<br>(0.512) | 43            |
| 2022                | 22               | 10 | 12.70<br>(0.500) | 14.27<br>(0.562) | 39            |
| 2024                | 24               | 11 | 13.97<br>(0.550) | 15.54<br>(0.612) | 36            |
| 2026                | 26               | 12 | 15.24<br>(0.600) | 16.81<br>(0.662) | 33            |
| 2028                | 28               | 13 | 16.51<br>(0.650) | 18.08<br>(0.712) | 31            |
| 2030                | 30               | 14 | 17.78<br>(0.700) | 19.35<br>(0.762) | 29            |
| 2032                | 32               | 15 | 19.05<br>(0.750) | 20.62<br>(0.812) | 27            |
| 2034                | 34               | 16 | 20.32<br>(0.800) | 21.89<br>(0.862) | 26            |
| 2036                | 36               | 17 | 21.59<br>(0.850) | 23.16<br>(0.912) | 24            |
| 2038                | 38               | 18 | 22.86<br>(0.900) | 24.43<br>(0.962) | 23            |
| 2040                | 40               | 19 | 24.13<br>(0.950) | 25.70<br>(1.012) | 22            |
| 2042                | 42               | 20 | 25.40<br>(1.000) | 26.97<br>(1.062) | 21            |
| 2044                | 44               | 21 | 26.67<br>(1.050) | 28.24<br>(1.112) | 20            |
| 2046                | 46               | 22 | 27.94<br>(1.100) | 29.51<br>(1.162) | 19            |
| ↓ ↓ 2048 ↓ ↓        | 48               | 23 | 29.21<br>(1.150) | 30.78<br>(1.212) | 18            |
| 20 5016 2050 10 001 | 50               | 24 | 30.48<br>(1.200) | 32.05<br>(1.262) | 17            |
| 20 5016 2052 10 001 | 52               | 25 | 31.75<br>(1.250) | 33.32<br>(1.312) | 17            |
| ↑ ↑ 2054 ↑ ↑        | 54               | 26 | 33.02<br>(1.300) | 34.59<br>(1.362) | 16            |
| 2056                | 56               | 27 | 34.29<br>(1.350) | 35.86<br>(1.412) | 15            |
| 2058                | 58               | 28 | 35.56<br>(1.400) | 37.13<br>(1.462) | 15            |
| 2060                | 60               | 29 | 36.83<br>(1.450) | 38.40<br>(1.512) | 14            |
| 2062                | 62               | 30 | 38.10<br>(1.500) | 39.67<br>(1.562) | 14            |
| 2064                | 64               | 31 | 39.37<br>(1.550) | 40.94<br>(1.612) | 13            |
| 2066                | 66               | 32 | 40.64<br>(1.600) | 42.21<br>(1.662) | 13            |
| 2068                | 68               | 33 | 41.91<br>(1.650) | 43.48<br>(1.712) | 13            |
| 2070                | 70               | 34 | 43.18<br>(1.700) | 44.75<br>(1.762) | 12            |
| 2072                | 72               | 35 | 44.45<br>(1.750) | 46.02<br>(1.812) | 12            |
| 2074                | 74               | 36 | 45.72<br>(1.800) | 47.29<br>(1.862) | 12            |
| 2076                | 76               | 37 | 46.99<br>(1.850) | 48.56<br>(1.912) | 11            |
| 2078                | 78               | 38 | 48.26<br>(1.900) | 49.83<br>(1.962) | 11            |
| 2080                | 80               | 39 | 49.53<br>(1.950) | 51.10<br>(2.012) | 11            |
| 2082                | 82               | 40 | 50.80<br>(2.000) | 52.37<br>(2.062) | 10            |
| 2084                | 84               | 41 | 52.07<br>(2.050) | 53.64<br>(2.112) | 10            |
| 2086                | 86               | 42 | 53.34<br>(2.100) | 54.91<br>(2.162) | 10            |
| 2088                | 88               | 43 | 54.61<br>(2.150) | 56.18<br>(2.212) | 10            |
| 2090                | 90               | 44 | 55.88<br>(2.200) | 57.45<br>(2.262) | 9             |
| 2092                | 92               | 45 | 57.15<br>(2.250) | 58.72<br>(2.312) | 9             |
| 2094                | 94               | 46 | 58.42<br>(2.300) | 59.99<br>(2.362) | 9             |
| 2096                | 96               | 47 | 59.69<br>(2.350) | 61.26<br>(2.412) | 9             |
| 2098                | 98               | 48 | 60.96<br>(2.400) | 62.53<br>(2.462) | 9             |
| ↓ ↓ 2100 ↓ ↓        | 100              | 49 | 62.23<br>(2.450) | 63.80<br>(2.512) | 8             |
| 20 5016 2102 10 001 | 102              | 50 | 63.50<br>(2.500) | 65.07<br>(2.562) | 8             |



### Specifications

- Insulator Material – High temperature thermoplastic (UL 94 V-O)
- Contact Material – copper alloy
- Contact Plating – .000030–.000080 (0.00076–0.00203) nickel underplate all over  
.000015 (0.00038) min. gold in mating area  
.000075–.000150 (0.00191–0.00381) tin/lead on tails

### Mating Half

| Part Number         | Board/Board Stacking Height | See Page |
|---------------------|-----------------------------|----------|
| 20-5016-2XXX-10-001 | 6.09                        | 5        |
| 10-5016-2XXX-10-001 |                             | 10       |
| 20-5016-2XXX-10-001 | 6.73                        | 5        |
| 11-5016-2XXX-10-001 |                             | 11       |

### ORDERING CODE

PART NO. 20 5016 2XXX 10 0X1  
 SERIES \_\_\_\_\_  
 NO. OF WAYS \_\_\_\_\_

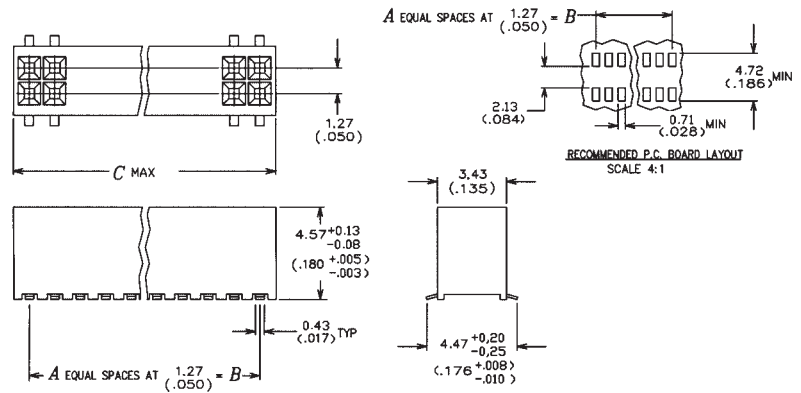
0 = Standard Tube Packaging  
 8 = Tape and Reel

# Torson 0.050" 1.27mm



## 21-5016-2XXX-10-001 – Receptacle

| Part Number         | No. of Positions | A  | B                | C Max.           | Qty. Per Tube |
|---------------------|------------------|----|------------------|------------------|---------------|
| 21 5016 2004 10 001 | 4                | 1  | 1.27<br>(0.050)  | 2.84<br>(0.112)  | 200           |
| ↑ ↑ 2006 ↑ ↑        | 6                | 2  | 2.54<br>(0.100)  | 4.11<br>(0.162)  | 138           |
| 2008                | 8                | 3  | 3.81<br>(0.150)  | 5.38<br>(0.212)  | 105           |
| 2010                | 10               | 4  | 5.08<br>(0.200)  | 6.65<br>(0.262)  | 85            |
| 2012                | 12               | 5  | 6.35<br>(0.250)  | 7.92<br>(0.312)  | 71            |
| 2014                | 14               | 6  | 7.62<br>(0.300)  | 9.19<br>(0.362)  | 62            |
| 2016                | 16               | 7  | 8.89<br>(0.350)  | 10.46<br>(0.412) | 54            |
| 2018                | 18               | 8  | 10.16<br>(0.400) | 11.73<br>(0.462) | 48            |
| 2020                | 20               | 9  | 11.43<br>(0.450) | 13.00<br>(0.512) | 43            |
| 2022                | 22               | 10 | 12.70<br>(0.500) | 14.27<br>(0.562) | 39            |
| 2024                | 24               | 11 | 13.97<br>(0.550) | 15.54<br>(0.612) | 36            |
| 2026                | 26               | 12 | 15.24<br>(0.600) | 16.81<br>(0.662) | 33            |
| 2028                | 28               | 13 | 16.51<br>(0.650) | 18.08<br>(0.712) | 31            |
| 2030                | 30               | 14 | 17.78<br>(0.700) | 19.35<br>(0.762) | 29            |
| 2032                | 32               | 15 | 19.05<br>(0.750) | 20.62<br>(0.812) | 27            |
| 2034                | 34               | 16 | 20.32<br>(0.800) | 21.89<br>(0.862) | 26            |
| 2036                | 36               | 17 | 21.59<br>(0.850) | 23.16<br>(0.912) | 24            |
| 2038                | 38               | 18 | 22.86<br>(0.900) | 24.43<br>(0.962) | 23            |
| 2040                | 40               | 19 | 24.13<br>(0.950) | 25.70<br>(1.012) | 22            |
| 2042                | 42               | 20 | 25.40<br>(1.000) | 26.97<br>(1.062) | 21            |
| 2044                | 44               | 21 | 26.67<br>(1.050) | 28.24<br>(1.112) | 20            |
| 2046                | 46               | 22 | 27.94<br>(1.100) | 29.51<br>(1.162) | 19            |
| ↓ ↓ 2048 ↓ ↓        | 48               | 23 | 29.21<br>(1.150) | 30.78<br>(1.212) | 18            |
| 21 5016 2050 10 001 | 50               | 24 | 30.48<br>(1.200) | 32.05<br>(1.262) | 17            |
| 21 5016 2052 10 001 | 52               | 25 | 31.75<br>(1.250) | 33.32<br>(1.312) | 17            |
| ↑ ↑ 2054 ↑ ↑        | 54               | 26 | 33.02<br>(1.300) | 34.59<br>(1.362) | 16            |
| 2056                | 56               | 27 | 34.29<br>(1.350) | 35.86<br>(1.412) | 15            |
| 2058                | 58               | 28 | 35.56<br>(1.400) | 37.13<br>(1.462) | 15            |
| 2060                | 60               | 29 | 36.83<br>(1.450) | 38.40<br>(1.512) | 14            |
| 2062                | 62               | 30 | 38.10<br>(1.500) | 39.67<br>(1.562) | 14            |
| 2064                | 64               | 31 | 39.37<br>(1.550) | 40.94<br>(1.612) | 13            |
| 2066                | 66               | 32 | 40.64<br>(1.600) | 42.21<br>(1.662) | 13            |
| 2068                | 68               | 33 | 41.91<br>(1.650) | 43.48<br>(1.712) | 13            |
| 2070                | 70               | 34 | 43.18<br>(1.700) | 44.75<br>(1.762) | 12            |
| 2072                | 72               | 35 | 44.45<br>(1.750) | 46.02<br>(1.812) | 12            |
| 2074                | 74               | 36 | 45.72<br>(1.800) | 47.29<br>(1.862) | 12            |
| 2076                | 76               | 37 | 46.99<br>(1.850) | 48.56<br>(1.912) | 11            |
| 2078                | 78               | 38 | 48.26<br>(1.900) | 49.83<br>(1.962) | 11            |
| 2080                | 80               | 39 | 49.53<br>(1.950) | 51.10<br>(2.012) | 11            |
| 2082                | 82               | 40 | 50.80<br>(2.000) | 52.37<br>(2.062) | 10            |
| 2084                | 84               | 41 | 52.07<br>(2.050) | 53.64<br>(2.112) | 10            |
| 2086                | 86               | 42 | 53.34<br>(2.100) | 54.91<br>(2.162) | 10            |
| 2088                | 88               | 43 | 54.61<br>(2.150) | 56.18<br>(2.212) | 10            |
| 2090                | 90               | 44 | 55.88<br>(2.200) | 57.45<br>(2.262) | 9             |
| 2092                | 92               | 45 | 57.15<br>(2.250) | 58.72<br>(2.312) | 9             |
| 2094                | 94               | 46 | 58.42<br>(2.300) | 59.99<br>(2.362) | 9             |
| 2096                | 96               | 47 | 59.69<br>(2.350) | 61.26<br>(2.412) | 9             |
| 2098                | 98               | 48 | 60.96<br>(2.400) | 62.53<br>(2.462) | 9             |
| ↓ ↓ 2100 ↓ ↓        | 100              | 49 | 62.23<br>(2.450) | 63.80<br>(2.512) | 8             |
| 21 5016 2102 10 001 | 102              | 50 | 63.50<br>(2.500) | 65.07<br>(2.562) | 8             |



### Specifications

- Insulator Material – High temperature thermoplastic (UL 94 V-O)
- Contact Material – copper alloy
- Contact Plating – .000030-.000080 (0.00076-0.00203) nickel underplate all over  
.000015 (0.00038) min. gold in mating area  
.000075-.000150 (0.00191-0.00381) tin/lead on tails

### Mating Half

| Part Number         | Board/Board Stacking Height | See Page |
|---------------------|-----------------------------|----------|
| 11-5016-2XXX-10-001 | 6.73                        | 11       |
| 20-5016-2XXX-10-001 |                             | 5        |
| 11-5016-2XXX-10-001 | 6.73                        | 11       |
| 21-5016-2XXX-10-001 |                             | 6        |

### ORDERING CODE

PART NO. 21 5016 2XXX 10 0X1  
 SERIES \_\_\_\_\_  
 NO. OF WAYS \_\_\_\_\_

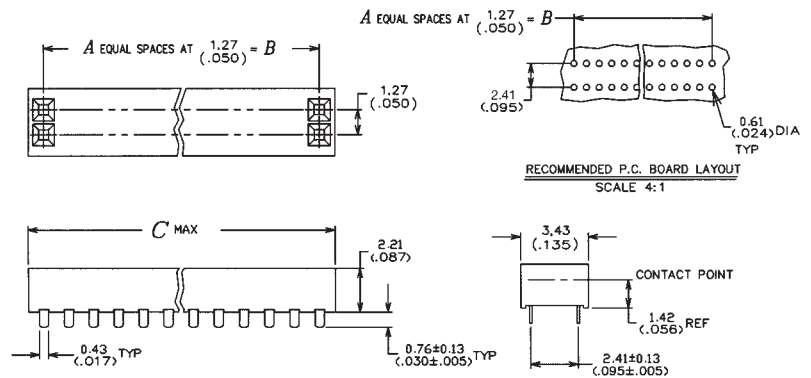
0 = Standard Tube Packaging  
 8 = Tape and Reel

# Torson 0.050" 1.27mm



## 22-5016-2XXX-10-001 – Receptacle

| Part Number         | No. of Positions | A  | B                | C Max.           | Qty. Per Tube |
|---------------------|------------------|----|------------------|------------------|---------------|
| 22 5016 2002 10 001 | 4                | 1  | 1.27<br>(0.050)  | 2.84<br>(0.112)  | 200           |
| ↑ ↑ 2003 ↑ ↑        | 6                | 2  | 2.54<br>(0.100)  | 4.11<br>(0.162)  | 138           |
| 2004                | 8                | 3  | 3.81<br>(0.150)  | 5.38<br>(0.212)  | 105           |
| 2005                | 10               | 4  | 5.08<br>(0.200)  | 6.65<br>(0.262)  | 85            |
| 2006                | 12               | 5  | 6.35<br>(0.250)  | 7.92<br>(0.312)  | 71            |
| 2007                | 14               | 6  | 7.62<br>(0.300)  | 9.19<br>(0.362)  | 62            |
| 2008                | 16               | 7  | 8.89<br>(0.350)  | 10.46<br>(0.412) | 54            |
| 2009                | 18               | 8  | 10.16<br>(0.400) | 11.73<br>(0.462) | 48            |
| 2010                | 20               | 9  | 11.43<br>(0.450) | 13.00<br>(0.512) | 43            |
| 2011                | 22               | 10 | 12.70<br>(0.500) | 14.27<br>(0.562) | 39            |
| 2012                | 24               | 11 | 13.97<br>(0.550) | 15.54<br>(0.612) | 36            |
| 2013                | 26               | 12 | 15.24<br>(0.600) | 16.81<br>(0.662) | 33            |
| 2014                | 28               | 13 | 16.51<br>(0.650) | 18.08<br>(0.712) | 31            |
| 2015                | 30               | 14 | 17.78<br>(0.700) | 19.35<br>(0.762) | 29            |
| 2016                | 32               | 15 | 19.05<br>(0.750) | 20.62<br>(0.812) | 27            |
| 2017                | 34               | 16 | 20.32<br>(0.800) | 21.89<br>(0.862) | 26            |
| 2018                | 36               | 17 | 21.59<br>(0.850) | 23.16<br>(0.912) | 24            |
| 2019                | 38               | 18 | 22.86<br>(0.900) | 24.43<br>(0.962) | 23            |
| 2020                | 40               | 19 | 24.13<br>(0.950) | 25.70<br>(1.012) | 22            |
| 2021                | 42               | 20 | 25.40<br>(1.000) | 26.97<br>(1.062) | 21            |
| 2022                | 44               | 21 | 26.67<br>(1.050) | 28.24<br>(1.112) | 20            |
| 2023                | 46               | 22 | 27.94<br>(1.100) | 29.51<br>(1.162) | 19            |
| ↓ ↓ 2024 ↓ ↓        | 48               | 23 | 29.21<br>(1.150) | 30.78<br>(1.212) | 18            |
| 22 5016 2025 10 001 | 50               | 24 | 30.48<br>(1.200) | 32.05<br>(1.262) | 17            |
| 22 5016 2026 10 001 | 52               | 25 | 31.75<br>(1.250) | 33.32<br>(1.312) | 17            |
| ↑ ↑ 2027 ↑ ↑        | 54               | 26 | 33.02<br>(1.300) | 34.59<br>(1.362) | 16            |
| 2028                | 56               | 27 | 34.29<br>(1.350) | 35.86<br>(1.412) | 15            |
| 2029                | 58               | 28 | 35.56<br>(1.400) | 37.13<br>(1.462) | 15            |
| 2030                | 60               | 29 | 36.83<br>(1.450) | 38.40<br>(1.512) | 14            |
| 2031                | 62               | 30 | 38.10<br>(1.500) | 39.67<br>(1.562) | 14            |
| 2032                | 64               | 31 | 39.37<br>(1.550) | 40.94<br>(1.612) | 13            |
| 2033                | 66               | 32 | 40.64<br>(1.600) | 42.21<br>(1.662) | 13            |
| 2034                | 68               | 33 | 41.91<br>(1.650) | 43.48<br>(1.712) | 13            |
| 2035                | 70               | 34 | 43.18<br>(1.700) | 44.75<br>(1.762) | 12            |
| 2036                | 72               | 35 | 44.45<br>(1.750) | 46.02<br>(1.812) | 12            |
| 2037                | 74               | 36 | 45.72<br>(1.800) | 47.29<br>(1.862) | 12            |
| 2038                | 76               | 37 | 46.99<br>(1.850) | 48.56<br>(1.912) | 11            |
| 2039                | 78               | 38 | 48.26<br>(1.900) | 49.83<br>(1.962) | 11            |
| 2040                | 80               | 39 | 49.53<br>(1.950) | 51.10<br>(2.012) | 11            |
| 2041                | 82               | 40 | 50.80<br>(2.000) | 52.37<br>(2.062) | 10            |
| 2042                | 84               | 41 | 52.07<br>(2.050) | 53.64<br>(2.112) | 10            |
| 2043                | 86               | 42 | 53.34<br>(2.100) | 54.91<br>(2.162) | 10            |
| 2044                | 88               | 43 | 54.61<br>(2.150) | 56.18<br>(2.212) | 10            |
| 2045                | 90               | 44 | 55.88<br>(2.200) | 57.45<br>(2.262) | 9             |
| 2046                | 92               | 45 | 57.15<br>(2.250) | 58.72<br>(2.312) | 9             |
| 2047                | 94               | 46 | 58.42<br>(2.300) | 59.99<br>(2.362) | 9             |
| 2048                | 96               | 47 | 59.69<br>(2.350) | 61.26<br>(2.412) | 9             |
| 2049                | 98               | 48 | 60.96<br>(2.400) | 62.53<br>(2.462) | 9             |
| ↓ ↓ 2050 ↓ ↓        | 100              | 49 | 62.23<br>(2.450) | 63.80<br>(2.512) | 8             |
| 22 5016 2051 10 001 | 102              | 50 | 63.50<br>(2.500) | 65.07<br>(2.562) | 8             |



### Specifications

- Insulator Material – High temperature thermoplastic (UL 94 V-O)
- Contact Material – copper alloy
- Contact Plating – .000030-.000080 (0.00076-0.00203) nickel underplate all over  
.000015 (0.00038) min. gold in mating area  
.000075-.000150 (0.00191-0.00381) tin/lead on tails

### Mating Half

| Part Number         | Board/Board Stacking Height | See Page |
|---------------------|-----------------------------|----------|
| 22-5016-2XXX-10-001 | 3.73                        | 7        |
| 12-5016-2XXX-10-001 |                             | 12       |
| 22-5016-2XXX-10-001 | 2.21                        | 7        |
| 15-5016-2XXX-10-002 |                             | 14       |

### ORDERING CODE

PART NO. 22 5016 2XXX 10 0X1  
 SERIES \_\_\_\_\_  
 NUMBER X2 = NO. OF WAYS \_\_\_\_\_

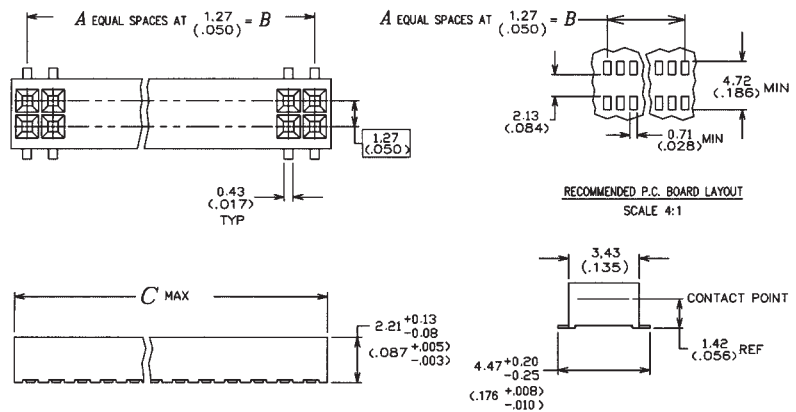
0 = Standard Tube Packaging  
 8 = Tape and Reel

# Torson 0.050" 1.27mm



## 23-5016-2XXX-10-001 – Receptacle

| Part Number         | No. of Positions | A  | B                | C Max.           | Qty. Per Tube |
|---------------------|------------------|----|------------------|------------------|---------------|
| 23 5016 2002 10 001 | 4                | 1  | 1.27<br>(0.050)  | 2.84<br>(0.112)  | 200           |
| ↑ ↑ 2003 ↑ ↑        | 6                | 2  | 2.54<br>(0.100)  | 4.11<br>(0.162)  | 138           |
| 2004                | 8                | 3  | 3.81<br>(0.150)  | 5.38<br>(0.212)  | 105           |
| 2005                | 10               | 4  | 5.08<br>(0.200)  | 6.65<br>(0.262)  | 85            |
| 2006                | 12               | 5  | 6.35<br>(0.250)  | 7.92<br>(0.312)  | 71            |
| 2007                | 14               | 6  | 7.62<br>(0.300)  | 9.19<br>(0.362)  | 62            |
| 2008                | 16               | 7  | 8.89<br>(0.350)  | 10.46<br>(0.412) | 54            |
| 2009                | 18               | 8  | 10.16<br>(0.400) | 11.73<br>(0.462) | 48            |
| 2010                | 20               | 9  | 11.43<br>(0.450) | 13.00<br>(0.512) | 43            |
| 2011                | 22               | 10 | 12.70<br>(0.500) | 14.27<br>(0.562) | 39            |
| 2012                | 24               | 11 | 13.97<br>(0.550) | 15.54<br>(0.612) | 36            |
| 2013                | 26               | 12 | 15.24<br>(0.600) | 16.81<br>(0.662) | 33            |
| 2014                | 28               | 13 | 16.51<br>(0.650) | 18.08<br>(0.712) | 31            |
| 2015                | 30               | 14 | 17.78<br>(0.700) | 19.35<br>(0.762) | 29            |
| 2016                | 32               | 15 | 19.05<br>(0.750) | 20.62<br>(0.812) | 27            |
| 2017                | 34               | 16 | 20.32<br>(0.800) | 21.89<br>(0.862) | 26            |
| 2018                | 36               | 17 | 21.59<br>(0.850) | 23.16<br>(0.912) | 24            |
| 2019                | 38               | 18 | 22.86<br>(0.900) | 24.43<br>(0.962) | 23            |
| 2020                | 40               | 19 | 24.13<br>(0.950) | 25.70<br>(1.012) | 22            |
| 2021                | 42               | 20 | 25.40<br>(1.000) | 26.97<br>(1.062) | 21            |
| 2022                | 44               | 21 | 26.67<br>(1.050) | 28.24<br>(1.112) | 20            |
| 2023                | 46               | 22 | 27.94<br>(1.100) | 29.51<br>(1.162) | 19            |
| ↓ ↓ 2024 ↓ ↓        | 48               | 23 | 29.21<br>(1.150) | 30.78<br>(1.212) | 18            |
| 23 5016 2025 10 001 | 50               | 24 | 30.48<br>(1.200) | 32.05<br>(1.262) | 17            |
| 23 5016 2026 10 001 | 52               | 25 | 31.75<br>(1.250) | 33.32<br>(1.312) | 17            |
| ↑ ↑ 2027 ↑ ↑        | 54               | 26 | 33.02<br>(1.300) | 34.59<br>(1.362) | 16            |
| 2028                | 56               | 27 | 34.29<br>(1.350) | 35.86<br>(1.412) | 15            |
| 2029                | 58               | 28 | 35.56<br>(1.400) | 37.13<br>(1.462) | 15            |
| 2030                | 60               | 29 | 36.83<br>(1.450) | 38.40<br>(1.512) | 14            |
| 2031                | 62               | 30 | 38.10<br>(1.500) | 39.67<br>(1.562) | 14            |
| 2032                | 64               | 31 | 39.37<br>(1.550) | 40.94<br>(1.612) | 13            |
| 2033                | 66               | 32 | 40.64<br>(1.600) | 42.21<br>(1.662) | 13            |
| 2034                | 68               | 33 | 41.91<br>(1.650) | 43.48<br>(1.712) | 13            |
| 2035                | 70               | 34 | 43.18<br>(1.700) | 44.75<br>(1.762) | 12            |
| 2036                | 72               | 35 | 44.45<br>(1.750) | 46.02<br>(1.812) | 12            |
| 2037                | 74               | 36 | 45.72<br>(1.800) | 47.29<br>(1.862) | 12            |
| 2038                | 76               | 37 | 46.99<br>(1.850) | 48.56<br>(1.912) | 11            |
| 2039                | 78               | 38 | 48.26<br>(1.900) | 49.83<br>(1.962) | 11            |
| 2040                | 80               | 39 | 49.53<br>(1.950) | 51.10<br>(2.012) | 11            |
| 2041                | 82               | 40 | 50.80<br>(2.000) | 52.37<br>(2.062) | 10            |
| 2042                | 84               | 41 | 52.07<br>(2.050) | 53.64<br>(2.112) | 10            |
| 2043                | 86               | 42 | 53.34<br>(2.100) | 54.91<br>(2.162) | 10            |
| 2044                | 88               | 43 | 54.61<br>(2.150) | 56.18<br>(2.212) | 10            |
| 2045                | 90               | 44 | 55.88<br>(2.200) | 57.45<br>(2.262) | 9             |
| 2046                | 92               | 45 | 57.15<br>(2.250) | 58.72<br>(2.312) | 9             |
| 2047                | 94               | 46 | 58.42<br>(2.300) | 59.99<br>(2.362) | 9             |
| 2048                | 96               | 47 | 59.69<br>(2.350) | 61.26<br>(2.412) | 9             |
| 2049                | 98               | 48 | 60.96<br>(2.400) | 62.53<br>(2.462) | 9             |
| ↓ ↓ 2050 ↓ ↓        | 100              | 49 | 62.23<br>(2.450) | 63.80<br>(2.512) | 8             |
| 23 5016 2051 10 001 | 102              | 50 | 63.50<br>(2.500) | 65.07<br>(2.562) | 8             |



### Specifications

- Insulator Material – High temperature thermoplastic (UL 94 V-O)
- Contact Material – copper alloy
- Contact Plating – .000030-.000080 (0.00076-0.00203) nickel underplate all over  
.000015 (0.00038) min. gold in mating area  
.000075-.000150 (0.00191-0.00381) tin/lead on tails

### Mating Half

| Part Number         | Board/Board Stacking Height | See Page |
|---------------------|-----------------------------|----------|
| 23-5016-2XXX-10-001 | 2.21                        | 8        |
| 15-5016-2XXX-10-002 |                             | 14       |
| 23-5016-2XXX-10-001 | 3.73                        | 8        |
| 12-5016-2XXX-10-001 |                             | 12       |
| 23-5016-2XXX-10-001 | 4.28                        | 8        |
| 17-5016-2XXX-10-001 |                             | 13       |

### ORDERING CODE

23 5016 2XXX 10 0X1  
 PART NO. \_\_\_\_\_  
 SERIES \_\_\_\_\_  
 NUMBER X2 = NO. OF WAYS \_\_\_\_\_

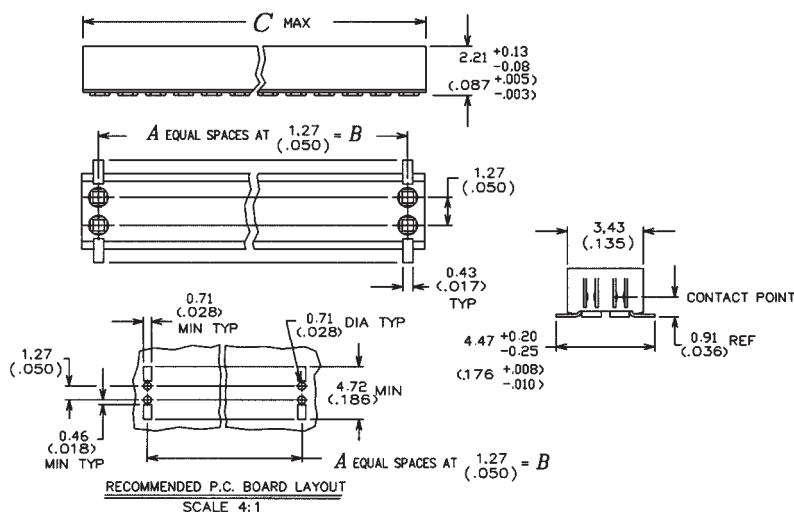
0 = Standard Tube Packaging  
 8 = Tape and Reel

# Torson 0.050" 1.27mm



## 24-5016-2XXX-10-001 – Receptacle

| Part Number         | No. of Positions | A  | B                | C Max.           | Qty. Per Tube |
|---------------------|------------------|----|------------------|------------------|---------------|
| 24 5016 2002 10 001 | 4                | 1  | 1.27<br>(0.050)  | 2.84<br>(0.112)  | 200           |
| ↑ ↑ 2003 ↑ ↑        | 6                | 2  | 2.54<br>(0.100)  | 4.11<br>(0.162)  | 138           |
| 2004                | 8                | 3  | 3.81<br>(0.150)  | 5.38<br>(0.212)  | 105           |
| 2005                | 10               | 4  | 5.08<br>(0.200)  | 6.65<br>(0.262)  | 85            |
| 2006                | 12               | 5  | 6.35<br>(0.250)  | 7.92<br>(0.312)  | 71            |
| 2007                | 14               | 6  | 7.62<br>(0.300)  | 9.19<br>(0.362)  | 62            |
| 2008                | 16               | 7  | 8.89<br>(0.350)  | 10.46<br>(0.412) | 54            |
| 2009                | 18               | 8  | 10.16<br>(0.400) | 11.73<br>(0.462) | 48            |
| 2010                | 20               | 9  | 11.43<br>(0.450) | 13.00<br>(0.512) | 43            |
| 2011                | 22               | 10 | 12.70<br>(0.500) | 14.27<br>(0.562) | 39            |
| 2012                | 24               | 11 | 13.97<br>(0.550) | 15.54<br>(0.612) | 36            |
| 2013                | 26               | 12 | 15.24<br>(0.600) | 16.81<br>(0.662) | 33            |
| 2014                | 28               | 13 | 16.51<br>(0.650) | 18.08<br>(0.712) | 31            |
| 2015                | 30               | 14 | 17.78<br>(0.700) | 19.35<br>(0.762) | 29            |
| 2016                | 32               | 15 | 19.05<br>(0.750) | 20.62<br>(0.812) | 27            |
| 2017                | 34               | 16 | 20.32<br>(0.800) | 21.89<br>(0.862) | 26            |
| 2018                | 36               | 17 | 21.59<br>(0.850) | 23.16<br>(0.912) | 24            |
| 2019                | 38               | 18 | 22.86<br>(0.900) | 24.43<br>(0.962) | 23            |
| 2020                | 40               | 19 | 24.13<br>(0.950) | 25.70<br>(1.012) | 22            |
| 2021                | 42               | 20 | 25.40<br>(1.000) | 26.97<br>(1.062) | 21            |
| 2022                | 44               | 21 | 26.67<br>(1.050) | 28.24<br>(1.112) | 20            |
| 2023                | 46               | 22 | 27.94<br>(1.100) | 29.51<br>(1.162) | 19            |
| ↓ ↓ 2024 ↓ ↓        | 48               | 23 | 29.21<br>(1.150) | 30.78<br>(1.212) | 18            |
| 24 5016 2025 10 001 | 50               | 24 | 30.48<br>(1.200) | 32.05<br>(1.262) | 17            |
| 24 5016 2026 10 001 | 52               | 25 | 31.75<br>(1.250) | 33.32<br>(1.312) | 17            |
| ↑ ↑ 2027 ↑ ↑        | 54               | 26 | 33.02<br>(1.300) | 34.59<br>(1.362) | 16            |
| 2028                | 56               | 27 | 34.29<br>(1.350) | 35.86<br>(1.412) | 15            |
| 2029                | 58               | 28 | 35.56<br>(1.400) | 37.13<br>(1.462) | 15            |
| 2030                | 60               | 29 | 36.83<br>(1.450) | 38.40<br>(1.512) | 14            |
| 2031                | 62               | 30 | 38.10<br>(1.500) | 39.67<br>(1.562) | 14            |
| 2032                | 64               | 31 | 39.37<br>(1.550) | 40.94<br>(1.612) | 13            |
| 2033                | 66               | 32 | 40.64<br>(1.600) | 42.21<br>(1.662) | 13            |
| 2034                | 68               | 33 | 41.91<br>(1.650) | 43.48<br>(1.712) | 13            |
| 2035                | 70               | 34 | 43.18<br>(1.700) | 44.75<br>(1.762) | 12            |
| 2036                | 72               | 35 | 44.45<br>(1.750) | 46.02<br>(1.812) | 12            |
| 2037                | 74               | 36 | 45.72<br>(1.800) | 47.29<br>(1.862) | 12            |
| 2038                | 76               | 37 | 46.99<br>(1.850) | 48.56<br>(1.912) | 11            |
| 2039                | 78               | 38 | 48.26<br>(1.900) | 49.83<br>(1.962) | 11            |
| 2040                | 80               | 39 | 49.53<br>(1.950) | 51.10<br>(2.012) | 11            |
| 2041                | 82               | 40 | 50.80<br>(2.000) | 52.37<br>(2.062) | 10            |
| 2042                | 84               | 41 | 52.07<br>(2.050) | 53.64<br>(2.112) | 10            |
| 2043                | 86               | 42 | 53.34<br>(2.100) | 54.91<br>(2.162) | 10            |
| 2044                | 88               | 43 | 54.61<br>(2.150) | 56.18<br>(2.212) | 10            |
| 2045                | 90               | 44 | 55.88<br>(2.200) | 57.45<br>(2.262) | 9             |
| 2046                | 92               | 45 | 57.15<br>(2.250) | 58.72<br>(2.312) | 9             |
| 2047                | 94               | 46 | 58.42<br>(2.300) | 59.99<br>(2.362) | 9             |
| 2048                | 96               | 47 | 59.69<br>(2.350) | 61.26<br>(2.412) | 9             |
| 2049                | 98               | 48 | 60.96<br>(2.400) | 62.53<br>(2.462) | 9             |
| ↓ ↓ 2050 ↓ ↓        | 100              | 49 | 62.23<br>(2.450) | 63.80<br>(2.512) | 8             |
| 24 5016 2051 10 001 | 102              | 50 | 63.50<br>(2.500) | 65.07<br>(2.562) | 8             |



### Specifications

- Insulator Material – High temperature thermoplastic (UL 94 V-O)
- Contact Material – copper alloy
- Contact Plating – .000030-.000080 (0.00076-0.00203) nickel underplate all over  
.000015 (0.00038) min. gold in mating area  
.000075-.000150 (0.00191-0.00381) tin/lead on tails

### Mating Half

| Part Number         | Board/Board Stacking Height | See Page |
|---------------------|-----------------------------|----------|
| 24-5016-2XXX-10-001 | 1.52                        | 9        |
| 12-5016-2XXX-10-001 |                             | 12       |

### ORDERING CODE

24 5016 2XXX 10 0X1  
 PART NO. \_\_\_\_\_  
 SERIES \_\_\_\_\_  
 NUMBER X2 = NO. OF WAYS \_\_\_\_\_

0 = Standard Tube Packaging  
 8 = Tape and Reel

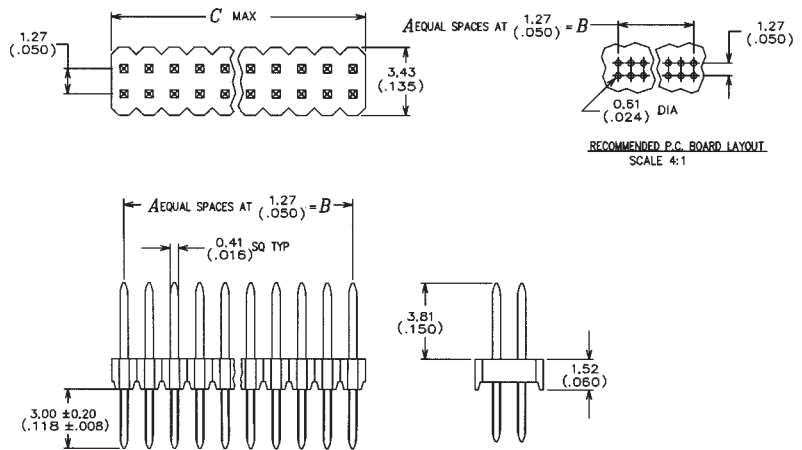


# Torson 0.050" 1.27mm



## 10-5016-2XXX-10-001 – Header

| Part Number         | No. of Positions | A  | B                | C Max.           | Qty. Per Tube |
|---------------------|------------------|----|------------------|------------------|---------------|
| 10 5016 2004 10 001 | 4                | 1  | 1.27<br>(0.050)  | 2.54<br>(0.100)  | 224           |
| ↑ ↑ 2006 ↑ ↑        | 6                | 2  | 2.54<br>(0.100)  | 3.81<br>(0.150)  | 149           |
| 2008                | 8                | 3  | 3.81<br>(0.150)  | 5.08<br>(0.200)  | 112           |
| 2010                | 10               | 4  | 5.08<br>(0.200)  | 6.35<br>(0.250)  | 89            |
| 2012                | 12               | 5  | 6.35<br>(0.250)  | 7.62<br>(0.300)  | 74            |
| 2014                | 14               | 6  | 7.62<br>(0.300)  | 8.89<br>(0.350)  | 64            |
| 2016                | 16               | 7  | 8.89<br>(0.350)  | 10.16<br>(0.400) | 56            |
| 2018                | 18               | 8  | 10.16<br>(0.400) | 11.43<br>(0.450) | 49            |
| 2020                | 20               | 9  | 11.43<br>(0.450) | 12.70<br>(0.500) | 44            |
| 2022                | 22               | 10 | 12.70<br>(0.500) | 13.97<br>(0.550) | 40            |
| 2024                | 24               | 11 | 13.97<br>(0.550) | 15.24<br>(0.600) | 37            |
| 2026                | 26               | 12 | 15.24<br>(0.600) | 16.51<br>(0.650) | 34            |
| 2028                | 28               | 13 | 16.51<br>(0.650) | 17.78<br>(0.700) | 32            |
| 2030                | 30               | 14 | 17.78<br>(0.700) | 19.05<br>(0.750) | 29            |
| 2032                | 32               | 15 | 19.05<br>(0.750) | 20.32<br>(0.800) | 28            |
| 2034                | 34               | 16 | 20.32<br>(0.800) | 21.59<br>(0.850) | 26            |
| 2036                | 36               | 17 | 21.59<br>(0.850) | 22.86<br>(0.900) | 24            |
| 2038                | 38               | 18 | 22.86<br>(0.900) | 24.13<br>(0.950) | 23            |
| 2040                | 40               | 19 | 24.13<br>(0.950) | 25.40<br>(1.000) | 22            |
| 2042                | 42               | 20 | 25.40<br>(1.000) | 26.67<br>(1.050) | 21            |
| 2044                | 44               | 21 | 26.67<br>(1.050) | 27.94<br>(1.100) | 20            |
| 2046                | 46               | 22 | 27.94<br>(1.100) | 29.21<br>(1.150) | 19            |
| ↓ ↓ 2048 ↓ ↓        | 48               | 23 | 29.21<br>(1.150) | 30.48<br>(1.200) | 18            |
| 10 5016 2050 10 001 | 50               | 24 | 30.48<br>(1.200) | 31.75<br>(1.250) | 17            |
| 10 5016 2052 10 001 | 52               | 25 | 31.75<br>(1.250) | 33.02<br>(1.300) | 17            |
| ↑ ↑ 2054 ↑ ↑        | 54               | 26 | 33.02<br>(1.300) | 34.29<br>(1.350) | 16            |
| 2056                | 56               | 27 | 34.29<br>(1.350) | 35.56<br>(1.400) | 16            |
| 2058                | 58               | 28 | 35.56<br>(1.400) | 36.83<br>(1.450) | 15            |
| 2060                | 60               | 29 | 36.83<br>(1.450) | 38.10<br>(1.500) | 14            |
| 2062                | 62               | 30 | 38.10<br>(1.500) | 39.37<br>(1.550) | 14            |
| 2064                | 64               | 31 | 39.37<br>(1.550) | 40.64<br>(1.600) | 14            |
| 2066                | 66               | 32 | 40.64<br>(1.600) | 41.91<br>(1.650) | 13            |
| 2068                | 68               | 33 | 41.91<br>(1.650) | 43.18<br>(1.700) | 13            |
| 2070                | 70               | 34 | 43.18<br>(1.700) | 44.45<br>(1.750) | 12            |
| 2072                | 72               | 35 | 44.45<br>(1.750) | 45.72<br>(1.800) | 12            |
| 2074                | 74               | 36 | 45.72<br>(1.800) | 46.99<br>(1.850) | 12            |
| 2076                | 76               | 37 | 46.99<br>(1.850) | 48.26<br>(1.900) | 11            |
| 2078                | 78               | 38 | 48.26<br>(1.900) | 49.53<br>(1.950) | 11            |
| 2080                | 80               | 39 | 49.53<br>(1.950) | 50.80<br>(2.000) | 11            |
| 2082                | 82               | 40 | 50.80<br>(2.000) | 52.07<br>(2.050) | 10            |
| 2084                | 84               | 41 | 52.07<br>(2.050) | 53.34<br>(2.100) | 10            |
| 2086                | 86               | 42 | 53.34<br>(2.100) | 54.61<br>(2.150) | 10            |
| 2088                | 88               | 43 | 54.61<br>(2.150) | 55.88<br>(2.200) | 10            |
| 2090                | 90               | 44 | 55.88<br>(2.200) | 57.15<br>(2.250) | 9             |
| 2092                | 92               | 45 | 57.15<br>(2.250) | 58.42<br>(2.300) | 9             |
| 2094                | 94               | 46 | 58.42<br>(2.300) | 59.69<br>(2.350) | 9             |
| 2096                | 96               | 47 | 59.69<br>(2.350) | 60.96<br>(2.400) | 9             |
| ↓ ↓ 2098 ↓ ↓        | 98               | 48 | 60.96<br>(2.400) | 62.23<br>(2.450) | 9             |
| 10 5016 2100 10 001 | 100              | 49 | 62.23<br>(2.450) | 63.50<br>(2.500) | 8             |



### Specifications

- Insulator Material – High temperature thermoplastic (UL 94 V-O)
- Contact Material – copper alloy
- Contact Plating – .000030-.000080 (0.00076-0.00203) nickel underplate all over  
.000015 (0.00038) min. gold in mating area  
.000075-.000150 (0.00191-0.00381) tin/lead on tails

### Mating Half

| Part Number         | Board/Board Stacking Height | See Page |
|---------------------|-----------------------------|----------|
| 10-5016-2XXX-10-001 | 6.09                        | 10       |
| 20-5016-2XXX-10-001 |                             | 5        |
| 10-5016-2XXX-10-001 | 6.09                        | 10       |
| 21-5016-2XXX-10-001 |                             | 6        |

### ORDERING CODE

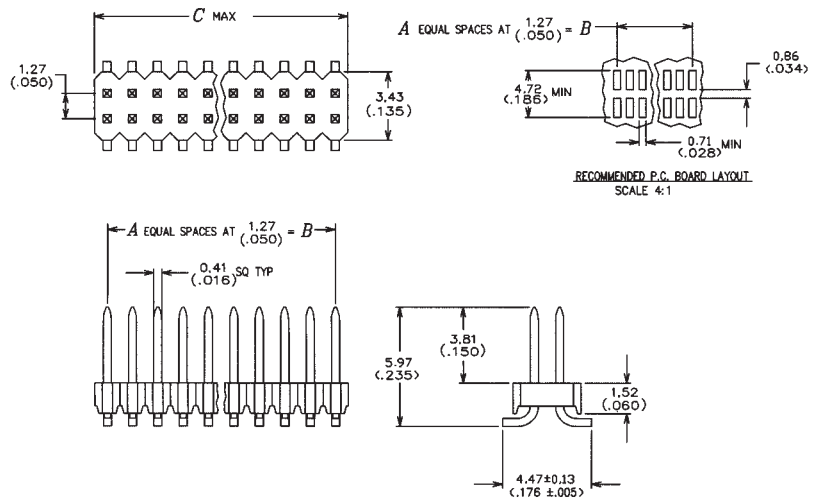
PART NO. 10 5016 2XXX 10 0X1  
 SERIES \_\_\_\_\_  
 NO. OF WAYS \_\_\_\_\_  
 0 = Standard Tube Packaging  
 8 = Tape and Reel

# Torson 0.050" 1.27mm



## 11-5016-2XXX-10-001 – Header

| Part Number         | No. of Positions | A  | B                | C Max.           | Qty. Per Tube |
|---------------------|------------------|----|------------------|------------------|---------------|
| 11 5016 2004 10 001 | 4                | 1  | 1.27<br>(0.050)  | 2.54<br>(0.100)  | 224           |
| ↑ ↑ 2006 ↑ ↑        | 6                | 2  | 2.54<br>(0.100)  | 3.81<br>(0.150)  | 149           |
| 2008                | 8                | 3  | 3.81<br>(0.150)  | 5.08<br>(0.200)  | 112           |
| 2010                | 10               | 4  | 5.08<br>(0.200)  | 6.35<br>(0.250)  | 89            |
| 2012                | 12               | 5  | 6.35<br>(0.250)  | 7.62<br>(0.300)  | 74            |
| 2014                | 14               | 6  | 7.62<br>(0.300)  | 8.89<br>(0.350)  | 64            |
| 2016                | 16               | 7  | 8.89<br>(0.350)  | 10.16<br>(0.400) | 56            |
| 2018                | 18               | 8  | 10.16<br>(0.400) | 11.43<br>(0.450) | 49            |
| 2020                | 20               | 9  | 11.43<br>(0.450) | 12.70<br>(0.500) | 44            |
| 2022                | 22               | 10 | 12.70<br>(0.500) | 13.97<br>(0.550) | 40            |
| 2024                | 24               | 11 | 13.97<br>(0.550) | 15.24<br>(0.600) | 37            |
| 2026                | 26               | 12 | 15.24<br>(0.600) | 16.51<br>(0.650) | 34            |
| 2028                | 28               | 13 | 16.51<br>(0.650) | 17.78<br>(0.700) | 32            |
| 2030                | 30               | 14 | 17.78<br>(0.700) | 19.05<br>(0.750) | 29            |
| 2032                | 32               | 15 | 19.05<br>(0.750) | 20.32<br>(0.800) | 28            |
| 2034                | 34               | 16 | 20.32<br>(0.800) | 21.59<br>(0.850) | 26            |
| 2036                | 36               | 17 | 21.59<br>(0.850) | 22.89<br>(0.900) | 24            |
| 2038                | 38               | 18 | 22.89<br>(0.900) | 24.13<br>(0.950) | 23            |
| 2040                | 40               | 19 | 24.13<br>(0.950) | 25.40<br>(1.000) | 22            |
| 2042                | 42               | 20 | 25.40<br>(1.000) | 26.67<br>(1.050) | 21            |
| 2044                | 44               | 21 | 26.67<br>(1.050) | 27.94<br>(1.100) | 20            |
| 2046                | 46               | 22 | 27.94<br>(1.100) | 29.21<br>(1.150) | 19            |
| ↓ ↓ 2048 ↓ ↓        | 48               | 23 | 29.21<br>(1.150) | 30.48<br>(1.200) | 18            |
| 11 5016 2050 10 001 | 50               | 24 | 30.48<br>(1.200) | 31.75<br>(1.250) | 17            |
| 11 5016 2052 10 001 | 52               | 25 | 31.75<br>(1.250) | 33.02<br>(1.300) | 17            |
| ↑ ↑ 2054 ↑ ↑        | 54               | 26 | 33.02<br>(1.300) | 34.29<br>(1.350) | 16            |
| 2056                | 56               | 27 | 34.29<br>(1.350) | 35.56<br>(1.400) | 16            |
| 2058                | 58               | 28 | 35.56<br>(1.400) | 36.83<br>(1.450) | 15            |
| 2060                | 60               | 29 | 36.83<br>(1.450) | 38.10<br>(1.500) | 14            |
| 2062                | 62               | 30 | 38.10<br>(1.500) | 39.37<br>(1.550) | 14            |
| 2064                | 64               | 31 | 39.37<br>(1.550) | 40.64<br>(1.600) | 14            |
| 2066                | 66               | 32 | 40.64<br>(1.600) | 41.91<br>(1.650) | 13            |
| 2068                | 68               | 33 | 41.91<br>(1.650) | 43.18<br>(1.700) | 13            |
| 2070                | 70               | 34 | 43.18<br>(1.700) | 44.45<br>(1.750) | 12            |
| 2072                | 72               | 35 | 44.45<br>(1.750) | 45.72<br>(1.800) | 12            |
| 2074                | 74               | 36 | 45.72<br>(1.800) | 46.99<br>(1.850) | 12            |
| 2076                | 76               | 37 | 46.99<br>(1.850) | 48.26<br>(1.900) | 11            |
| 2078                | 78               | 38 | 48.26<br>(1.900) | 49.53<br>(1.950) | 11            |
| 2080                | 80               | 39 | 49.53<br>(1.950) | 50.80<br>(2.000) | 11            |
| 2082                | 82               | 40 | 50.80<br>(2.000) | 52.07<br>(2.050) | 10            |
| 2084                | 84               | 41 | 52.07<br>(2.050) | 53.34<br>(2.100) | 10            |
| 2086                | 86               | 42 | 53.34<br>(2.100) | 54.61<br>(2.150) | 10            |
| 2088                | 88               | 43 | 54.61<br>(2.150) | 55.88<br>(2.200) | 10            |
| 2090                | 90               | 44 | 55.88<br>(2.200) | 57.15<br>(2.250) | 9             |
| 2092                | 92               | 45 | 57.15<br>(2.250) | 58.42<br>(2.300) | 9             |
| 2094                | 94               | 46 | 58.42<br>(2.300) | 59.69<br>(2.350) | 9             |
| 2096                | 96               | 47 | 59.69<br>(2.350) | 60.96<br>(2.400) | 9             |
| ↓ ↓ 2098 ↓ ↓        | 98               | 48 | 60.96<br>(2.400) | 62.23<br>(2.450) | 9             |
| 11 5016 2100 10 001 | 100              | 49 | 62.23<br>(2.450) | 63.50<br>(2.500) | 8             |



### Specifications

- Insulator Material – High temperature thermoplastic (UL 94 V-O)
- Contact Material – copper alloy
- Contact Plating – .000030–.000080 (0.00076–0.00203) nickel underplate all over .000015 (0.00038) min. gold in mating area .000075–.000150 (0.00191–0.00381) tin/lead on tails

### Mating Half

| Part Number         | Board/Board Stacking Height | See Page |
|---------------------|-----------------------------|----------|
| 11-5016-2XXX-10-001 | 6.73                        | 11       |
| 20-5016-2XXX-10-001 |                             | 5        |
| 11-5016-2XXX-10-001 | 6.73                        | 11       |
| 21-5016-2XXX-10-001 |                             | 6        |

### ORDERING CODE

11 5016 2XXX 10 0X1

PART NO. \_\_\_\_\_

SERIES \_\_\_\_\_

NO. OF WAYS \_\_\_\_\_

0 = Standard Tube Packaging  
8 = Tape and Reel

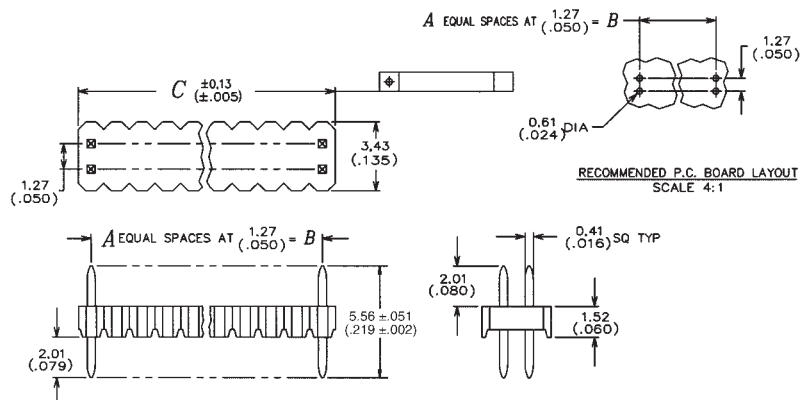


# Torson 0.050" 1.27mm



## 12-5016-2XXX-10-001 – Header

| Part Number         | No. of Positions | A  | B                | C Max.           | Qty. Per Tube |
|---------------------|------------------|----|------------------|------------------|---------------|
| 12 5016 2002 10 001 | 4                | 1  | 1.27<br>(0.050)  | 2.54<br>(0.100)  | 224           |
| ↑ ↑ 2003 ↑ ↑        | 6                | 2  | 2.54<br>(0.100)  | 3.81<br>(0.150)  | 149           |
| 2004                | 8                | 3  | 3.81<br>(0.150)  | 5.08<br>(0.200)  | 112           |
| 2005                | 10               | 4  | 5.08<br>(0.200)  | 6.35<br>(0.250)  | 89            |
| 2006                | 12               | 5  | 6.35<br>(0.250)  | 7.62<br>(0.300)  | 74            |
| 2007                | 14               | 6  | 7.62<br>(0.300)  | 8.89<br>(0.350)  | 64            |
| 2008                | 16               | 7  | 8.89<br>(0.350)  | 10.16<br>(0.400) | 56            |
| 2009                | 18               | 8  | 10.16<br>(0.400) | 11.43<br>(0.450) | 49            |
| 2010                | 20               | 9  | 11.43<br>(0.450) | 12.70<br>(0.500) | 44            |
| 2011                | 22               | 10 | 12.70<br>(0.500) | 13.97<br>(0.550) | 40            |
| 2012                | 24               | 11 | 13.97<br>(0.550) | 15.24<br>(0.600) | 37            |
| 2013                | 26               | 12 | 15.24<br>(0.600) | 16.51<br>(0.650) | 34            |
| 2014                | 28               | 13 | 16.51<br>(0.650) | 17.78<br>(0.700) | 32            |
| 2015                | 30               | 14 | 17.78<br>(0.700) | 19.05<br>(0.750) | 29            |
| 2016                | 32               | 15 | 19.05<br>(0.750) | 20.32<br>(0.800) | 28            |
| 2017                | 34               | 16 | 20.32<br>(0.800) | 21.59<br>(0.850) | 26            |
| 2018                | 36               | 17 | 21.59<br>(0.850) | 22.86<br>(0.900) | 24            |
| 2019                | 38               | 18 | 22.86<br>(0.900) | 24.13<br>(0.950) | 23            |
| 2020                | 40               | 19 | 24.13<br>(0.950) | 25.40<br>(1.000) | 22            |
| 2021                | 42               | 20 | 25.40<br>(1.000) | 26.67<br>(1.050) | 21            |
| 2022                | 44               | 21 | 26.67<br>(1.050) | 27.94<br>(1.100) | 20            |
| 2023                | 46               | 22 | 27.94<br>(1.100) | 29.21<br>(1.150) | 19            |
| ↓ ↓ 2024 ↓ ↓        | 48               | 23 | 29.21<br>(1.150) | 30.48<br>(1.200) | 18            |
| 12 5016 2025 10 001 | 50               | 24 | 30.48<br>(1.200) | 31.75<br>(1.250) | 17            |
| 12 5016 2026 10 001 | 52               | 25 | 31.75<br>(1.250) | 33.02<br>(1.300) | 17            |
| ↑ ↑ 2027 ↑ ↑        | 54               | 26 | 33.02<br>(1.300) | 34.29<br>(1.350) | 16            |
| 2028                | 56               | 27 | 34.29<br>(1.350) | 35.56<br>(1.400) | 16            |
| 2029                | 58               | 28 | 35.56<br>(1.400) | 36.83<br>(1.450) | 15            |
| 2030                | 60               | 29 | 36.83<br>(1.450) | 38.10<br>(1.500) | 14            |
| 2031                | 62               | 30 | 38.10<br>(1.500) | 39.37<br>(1.550) | 14            |
| 2032                | 64               | 31 | 39.37<br>(1.550) | 40.64<br>(1.600) | 14            |
| 2033                | 66               | 32 | 40.64<br>(1.600) | 41.91<br>(1.650) | 13            |
| 2034                | 68               | 33 | 41.91<br>(1.650) | 43.18<br>(1.700) | 13            |
| 2035                | 70               | 34 | 43.18<br>(1.700) | 44.45<br>(1.750) | 12            |
| 2036                | 72               | 35 | 44.45<br>(1.750) | 45.72<br>(1.800) | 12            |
| 2037                | 74               | 36 | 45.72<br>(1.800) | 46.99<br>(1.850) | 12            |
| 2038                | 76               | 37 | 46.99<br>(1.850) | 48.26<br>(1.900) | 11            |
| 2039                | 78               | 38 | 48.26<br>(1.900) | 49.53<br>(1.950) | 11            |
| 2040                | 80               | 39 | 49.53<br>(1.950) | 50.80<br>(2.000) | 11            |
| 2041                | 82               | 40 | 50.80<br>(2.000) | 52.07<br>(2.050) | 10            |
| 2042                | 84               | 41 | 52.07<br>(2.050) | 53.34<br>(2.100) | 10            |
| 2043                | 86               | 42 | 53.34<br>(2.100) | 54.61<br>(2.150) | 10            |
| 2044                | 88               | 43 | 54.61<br>(2.150) | 55.88<br>(2.200) | 10            |
| 2045                | 90               | 44 | 55.88<br>(2.200) | 57.15<br>(2.250) | 9             |
| 2046                | 92               | 45 | 57.15<br>(2.250) | 58.42<br>(2.300) | 9             |
| 2047                | 94               | 46 | 58.42<br>(2.300) | 59.69<br>(2.350) | 9             |
| 2048                | 96               | 47 | 59.69<br>(2.350) | 60.96<br>(2.400) | 9             |
| ↓ ↓ 2049 ↓ ↓        | 98               | 48 | 60.96<br>(2.400) | 62.23<br>(2.450) | 9             |
| 12 5016 2050 10 001 | 100              | 49 | 62.23<br>(2.450) | 63.50<br>(2.500) | 8             |



### Specifications

- Insulator Material – High temperature thermoplastic (UL 94 V-O)
- Contact Material – copper alloy
- Contact Plating – .000030–.000080 (0.00076–0.00203) nickel underplate all over .000015 (0.00038) min. gold in mating area .000075–.000150 (0.00191–0.00381) tin/lead on tails

### Mating Half

| Part Number         | Board/Board Stacking Height | See Page |
|---------------------|-----------------------------|----------|
| 12-5016-2XXX-10-001 | 1.52                        | 12       |
| 24-5016-2XXX-10-001 |                             | 9        |
| 12-5016-2XXX-10-001 | 3.73                        | 12       |
| 22-5016-2XXX-10-001 |                             | 7        |
| 12-5016-2XXX-10-001 | 3.73                        | 12       |
| 23-5016-2XXX-10-001 |                             | 8        |

### ORDERING CODE

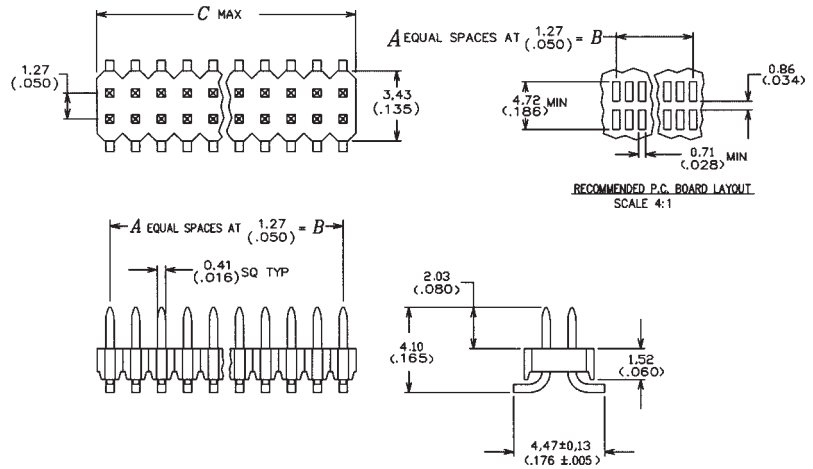
12 5016 2XXX 10 0X1  
 PART NO. 12 5016 2XXX 10 0X1  
 SERIES 0 = Standard Tube Packaging  
 8 = Tape and Reel  
 NUMBER X2 = NO. OF WAYS

# Torson 0.050" 1.27mm



## 17-5016-2XXX-10-001 – Header

| Part Number         | No. of Positions | A  | B                | C Max.           | Qty. Per Tube |
|---------------------|------------------|----|------------------|------------------|---------------|
| 17 5016 2002 10 001 | 4                | 1  | 1.27<br>(0.050)  | 2.54<br>(0.100)  | 224           |
| ↑ ↑ 2003 ↑ ↑        | 6                | 2  | 2.54<br>(0.100)  | 3.81<br>(0.150)  | 149           |
| 2004                | 8                | 3  | 3.81<br>(0.150)  | 5.08<br>(0.200)  | 112           |
| 2005                | 10               | 4  | 5.08<br>(0.200)  | 6.35<br>(0.250)  | 89            |
| 2006                | 12               | 5  | 6.35<br>(0.250)  | 7.62<br>(0.300)  | 74            |
| 2007                | 14               | 6  | 7.62<br>(0.300)  | 8.89<br>(0.350)  | 64            |
| 2008                | 16               | 7  | 8.89<br>(0.350)  | 10.16<br>(0.400) | 56            |
| 2009                | 18               | 8  | 10.16<br>(0.400) | 11.43<br>(0.450) | 49            |
| 2010                | 20               | 9  | 11.43<br>(0.450) | 12.70<br>(0.500) | 44            |
| 2011                | 22               | 10 | 12.70<br>(0.500) | 13.97<br>(0.550) | 40            |
| 2012                | 24               | 11 | 13.97<br>(0.550) | 15.24<br>(0.600) | 37            |
| 2013                | 26               | 12 | 15.24<br>(0.600) | 16.51<br>(0.650) | 34            |
| 2014                | 28               | 13 | 16.51<br>(0.650) | 17.78<br>(0.700) | 32            |
| 2015                | 30               | 14 | 17.78<br>(0.700) | 19.05<br>(0.750) | 29            |
| 2016                | 32               | 15 | 19.05<br>(0.750) | 20.32<br>(0.800) | 28            |
| 2017                | 34               | 16 | 20.32<br>(0.800) | 21.59<br>(0.850) | 26            |
| 2018                | 36               | 17 | 21.59<br>(0.850) | 22.86<br>(0.900) | 24            |
| 2019                | 38               | 18 | 22.86<br>(0.900) | 24.13<br>(0.950) | 23            |
| 2020                | 40               | 19 | 24.13<br>(0.950) | 25.40<br>(1.000) | 22            |
| 2021                | 42               | 20 | 25.40<br>(1.000) | 26.67<br>(1.050) | 21            |
| 2022                | 44               | 21 | 26.67<br>(1.050) | 27.94<br>(1.100) | 20            |
| 2023                | 46               | 22 | 27.94<br>(1.100) | 29.21<br>(1.150) | 19            |
| ↓ ↓ 2024 ↓ ↓        | 48               | 23 | 29.21<br>(1.150) | 30.48<br>(1.200) | 18            |
| 17 5016 2025 10 001 | 50               | 24 | 30.48<br>(1.200) | 31.75<br>(1.250) | 17            |
| 17 5016 2026 10 001 | 52               | 25 | 31.75<br>(1.250) | 33.02<br>(1.300) | 17            |
| ↑ ↑ 2027 ↑ ↑        | 54               | 26 | 33.02<br>(1.300) | 34.29<br>(1.350) | 16            |
| 2028                | 56               | 27 | 34.29<br>(1.350) | 35.56<br>(1.400) | 16            |
| 2029                | 58               | 28 | 35.56<br>(1.400) | 36.83<br>(1.450) | 15            |
| 2030                | 60               | 29 | 36.83<br>(1.450) | 38.10<br>(1.500) | 14            |
| 2031                | 62               | 30 | 38.10<br>(1.500) | 39.37<br>(1.550) | 14            |
| 2032                | 64               | 31 | 39.37<br>(1.550) | 40.64<br>(1.600) | 14            |
| 2033                | 66               | 32 | 40.64<br>(1.600) | 41.91<br>(1.650) | 13            |
| 2034                | 68               | 33 | 41.91<br>(1.650) | 43.18<br>(1.700) | 13            |
| 2035                | 70               | 34 | 43.18<br>(1.700) | 44.45<br>(1.750) | 12            |
| 2036                | 72               | 35 | 44.45<br>(1.750) | 45.72<br>(1.800) | 12            |
| 2037                | 74               | 36 | 45.72<br>(1.800) | 46.99<br>(1.850) | 12            |
| 2038                | 76               | 37 | 46.99<br>(1.850) | 48.26<br>(1.900) | 11            |
| 2039                | 78               | 38 | 48.26<br>(1.900) | 49.53<br>(1.950) | 11            |
| 2040                | 80               | 39 | 49.53<br>(1.950) | 50.80<br>(2.000) | 11            |
| 2041                | 82               | 40 | 50.80<br>(2.000) | 52.07<br>(2.050) | 10            |
| 2042                | 84               | 41 | 52.07<br>(2.050) | 53.34<br>(2.100) | 10            |
| 2043                | 86               | 42 | 53.34<br>(2.100) | 54.61<br>(2.150) | 10            |
| 2044                | 88               | 43 | 54.61<br>(2.150) | 55.88<br>(2.200) | 10            |
| 2045                | 90               | 44 | 55.88<br>(2.200) | 57.15<br>(2.250) | 9             |
| 2046                | 92               | 45 | 57.15<br>(2.250) | 58.42<br>(2.300) | 9             |
| 2047                | 94               | 46 | 58.42<br>(2.300) | 59.69<br>(2.350) | 9             |
| 2048                | 96               | 47 | 59.69<br>(2.350) | 60.96<br>(2.400) | 9             |
| ↓ ↓ 2049 ↓ ↓        | 98               | 48 | 60.96<br>(2.400) | 62.23<br>(2.450) | 9             |
| 17 5016 2050 10 001 | 100              | 49 | 62.23<br>(2.450) | 63.50<br>(2.500) | 8             |



### Specifications

- Insulator Material – High temperature thermoplastic (UL 94 V-O)
- Contact Material – copper alloy
- Contact Plating – .000030-.000080 (0.00076–0.00203) nickel underplate all over .000015 (0.00038) min. gold in mating area .000075-.000150 (0.00191–0.00381) tin/lead on tails

### Mating Half

| Part Number         | Board/Board Stacking Height | See Page |
|---------------------|-----------------------------|----------|
| 17-5016-2XXX-10-001 | 4.28                        | 13       |
| 23-5016-2XXX-10-001 |                             | 8        |
| 17-5016-2XXX-10-001 | 4.28                        | 13       |
| 22-5016-2XXX-10-001 |                             | 7        |

### ORDERING CODE

17 5016 2XXX 10 0X1

PART NO. \_\_\_\_\_

SERIES \_\_\_\_\_

NUMBER X2 = NO. OF WAYS \_\_\_\_\_

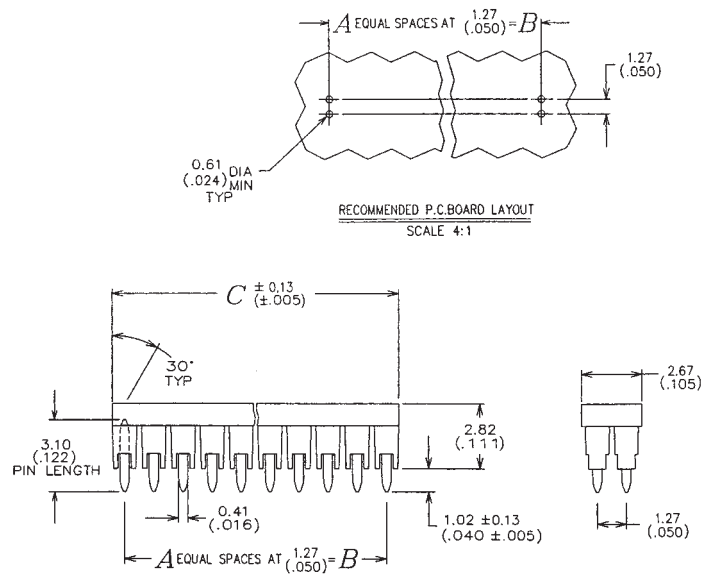
0 = Standard Tube Packaging  
8 = Tape and Reel

# Torson 0.050" 1.27mm

## 15-5016-2XXX-10-002 – Header



| Part Number |      |        |   | No. of Positions | A  | B                | C                |
|-------------|------|--------|---|------------------|----|------------------|------------------|
| 15 5016     | 2002 | 10 002 |   | 4                | 1  | 1.27<br>(0.050)  | 2.54<br>(0.100)  |
| ↑           | ↑    | 2003   | ↑ | 6                | 2  | 2.54<br>(0.100)  | 3.81<br>(0.150)  |
|             |      | 2004   |   | 8                | 3  | 3.81<br>(0.150)  | 5.08<br>(0.200)  |
|             |      | 2005   |   | 10               | 4  | 5.08<br>(0.200)  | 6.35<br>(0.250)  |
|             |      | 2006   |   | 12               | 5  | 6.35<br>(0.250)  | 7.62<br>(0.300)  |
|             |      | 2007   |   | 14               | 6  | 7.62<br>(0.300)  | 8.89<br>(0.350)  |
|             |      | 2008   |   | 16               | 7  | 8.89<br>(0.350)  | 10.16<br>(0.400) |
|             |      | 2009   |   | 18               | 8  | 10.16<br>(0.400) | 11.43<br>(0.450) |
|             |      | 2010   |   | 20               | 9  | 11.43<br>(0.450) | 12.70<br>(0.500) |
|             |      | 2011   |   | 22               | 10 | 12.70<br>(0.500) | 13.97<br>(0.550) |
|             |      | 2012   |   | 24               | 11 | 13.97<br>(0.550) | 15.24<br>(0.600) |
|             |      | 2013   |   | 26               | 12 | 15.24<br>(0.600) | 16.51<br>(0.650) |
| ↓           | ↓    | 2014   | ↓ | 28               | 13 | 16.51<br>(0.650) | 17.78<br>(0.700) |
| 15 5016     | 2015 | 10 002 |   | 30               | 14 | 17.78<br>(0.700) | 19.05<br>(0.750) |
| 15 5016     | 2016 | 10 002 |   | 32               | 15 | 19.05<br>(0.750) | 20.32<br>(0.800) |
| 15 5016     | 2017 | 10 002 |   | 34               | 16 | 20.32<br>(0.800) | 21.59<br>(0.850) |
| 15 5016     | 2018 | 10 002 |   | 36               | 17 | 21.59<br>(0.850) | 22.86<br>(0.900) |



### Mating Half

| Part Number         | Board/Board Stacking Height | See Page |
|---------------------|-----------------------------|----------|
| 15-5016-2XXX-10-002 | 2.21                        | 14       |
| 22-5016-2XXX-10-001 |                             | 7        |
| 15-5016-2XXX-10-002 | 2.21                        | 14       |
| 23-5016-2XXX-10-001 |                             | 8        |

### ORDERING CODE

PART NO. 15 5016 2XXX 10 0X2  
 SERIES \_\_\_\_\_  
 NUMBER X2 = NO. OF WAYS \_\_\_\_\_

0 = Standard Tube Packaging  
 8 = Tape and Reel

# Torson 0.050" 1.27mm



## Product Specifications

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### Specifications

- Insertion Force – 4 oz. max.
- Withdrawal Force – 0.50 oz. min.
- Contact Resistance – 20 milliohms initial
- Dielectric Withstanding Voltage – 1000 Vac
- Current Rating – 1 amp max.
- Durability - 50 cycles
- Operating Temperature – -55°C to +105°C
- Insulation Resistance – 1000 megohms min.

### Solder Temperature Reflow Profile

