

## ROUND CLEAR HOLE SPACERS

| CLEAR HOLE            | O.D.       | L LENGTH     | BRASS CAT. NO. | ALUMINUM CAT. NO. |
|-----------------------|------------|--------------|----------------|-------------------|
| .120 (3.0)<br>For #4  | .250 (6.4) | .125 (3.2)   | <b>1909</b>    | <b>2036</b>       |
|                       |            | .250 (6.4)   | <b>1454A</b>   | <b>3457</b>       |
|                       |            | .375 (9.5)   | <b>1454B</b>   | <b>3458</b>       |
|                       |            | .500 (12.7)  | <b>1454C</b>   | <b>3459</b>       |
|                       |            | .625 (15.9)  | <b>1919</b>    | <b>2314</b>       |
|                       |            | .750 (19.1)  | <b>1454D</b>   | <b>3460</b>       |
|                       |            | .875 (22.2)  | <b>1920</b>    | <b>3402</b>       |
|                       |            | 1.000 (25.4) | <b>1454E</b>   | <b>3461</b>       |
|                       |            | 1.500 (38.1) | <b>1924</b>    | <b>3462</b>       |
| .140 (3.5)<br>For #6  | .250 (6.4) | 2.000 (50.8) | <b>1925</b>    | <b>3463</b>       |
|                       |            | .125 (3.2)   | <b>1934</b>    | <b>3403</b>       |
|                       |            | .250 (6.4)   | <b>1457A</b>   | <b>3464</b>       |
|                       |            | .375 (9.5)   | <b>1457B</b>   | <b>3465</b>       |
|                       |            | .500 (12.7)  | <b>1457C</b>   | <b>3466</b>       |
|                       |            | .625 (15.9)  | <b>1935</b>    | <b>3429</b>       |
|                       |            | .750 (19.1)  | <b>1457D</b>   | <b>3467</b>       |
|                       |            | .875 (22.2)  | <b>1936</b>    | <b>3438</b>       |
|                       |            | 1.000 (25.4) | <b>1457E</b>   | <b>3468</b>       |
| .171 (4.3)<br>For #8  | .250 (6.4) | 1.500 (38.1) | <b>1937</b>    | <b>3469</b>       |
|                       |            | 2.000 (50.8) | <b>1938</b>    | <b>3470</b>       |
|                       |            | .125 (3.2)   | <b>1942</b>    | <b>4258</b>       |
|                       |            | .250 (6.4)   | <b>1480</b>    | <b>3471</b>       |
|                       |            | .375 (9.5)   | <b>1481</b>    | <b>3472</b>       |
|                       |            | .500 (12.7)  | <b>1482</b>    | <b>3473</b>       |
|                       |            | .625 (15.9)  | <b>2032</b>    | <b>4259</b>       |
|                       |            | .750 (19.1)  | <b>1483</b>    | <b>3474</b>       |
|                       |            | .875 (22.2)  | <b>2033</b>    | <b>4260</b>       |
| .196 (5.0)<br>For #10 | .312 (7.9) | 1.000 (25.4) | <b>1484</b>    | <b>3475</b>       |
|                       |            | 1.500 (38.1) | <b>2034</b>    | <b>3476</b>       |
|                       |            | 2.000 (50.8) | <b>2035</b>    | <b>3477</b>       |
|                       |            | .250 (6.4)   | <b>1662</b>    | <b>4261</b>       |
|                       |            | .375 (9.5)   | <b>1663</b>    | <b>4262</b>       |
|                       |            | .500 (12.7)  | <b>1664</b>    | <b>4263</b>       |
|                       |            | .625 (15.9)  | <b>1665</b>    | <b>4264</b>       |
|                       |            | .750 (19.1)  | <b>1666</b>    | <b>4265</b>       |
|                       |            | .875 (22.2)  | <b>1667</b>    | <b>4266</b>       |
|                       |            | 1.000 (25.4) | <b>1668</b>    | <b>4267</b>       |
|                       |            | 1.500 (38.1) | <b>1669</b>    | <b>4268</b>       |
|                       |            | 2.000 (50.8) | <b>1672</b>    | <b>4269</b>       |

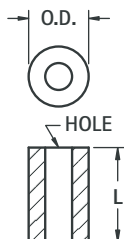
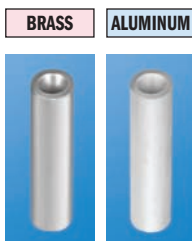
## MATERIAL:

Brass: ASTM-B16, Nickel Plate (QQ-N-290)

Aluminum: ASTM B211, Clear Iridite (MIL-C-5541)

Nylon: Nylon 6/6, UL Rated 94V-2

Phenolic: PBE Grade Natural Color Phenolic



| NYLON CAT. NO. | PHENOLIC CAT. NO. | L LENGTH     | O.D.       | CLEAR HOLE            |
|----------------|-------------------|--------------|------------|-----------------------|
| <b>875</b>     | —                 | .125 (3.2)   | .250 (6.4) | .120 (3.0)<br>For #4  |
| <b>876</b>     | <b>360</b>        | .250 (6.4)   |            |                       |
| <b>877</b>     | <b>361</b>        | .375 (9.5)   |            |                       |
| <b>878</b>     | <b>362</b>        | .500 (12.7)  |            |                       |
| <b>879</b>     | —                 | .625 (15.9)  |            |                       |
| <b>880</b>     | <b>363</b>        | .750 (19.1)  |            |                       |
| <b>881</b>     | —                 | .875 (22.2)  |            |                       |
| <b>882</b>     | <b>364</b>        | 1.000 (25.4) |            |                       |
| <b>779</b>     | <b>365</b>        | 1.500 (38.1) |            |                       |
| —              | <b>366</b>        | 2.000 (50.8) | .250 (6.4) | .140 (3.5)<br>For #6  |
| <b>883</b>     | —                 | .125 (3.2)   |            |                       |
| <b>884</b>     | <b>367</b>        | .250 (6.4)   |            |                       |
| <b>885</b>     | <b>368</b>        | .375 (9.5)   |            |                       |
| <b>886</b>     | <b>369</b>        | .500 (12.7)  |            |                       |
| <b>887</b>     | —                 | .625 (15.9)  |            |                       |
| <b>888</b>     | <b>370</b>        | .750 (19.1)  |            |                       |
| <b>889</b>     | —                 | .875 (22.2)  |            |                       |
| <b>890</b>     | <b>371</b>        | 1.000 (25.4) |            |                       |
| <b>789</b>     | <b>372</b>        | 1.500 (38.1) | .250 (6.4) | .171 (4.3)<br>For #8  |
| —              | <b>373</b>        | 2.000 (50.8) |            |                       |
| <b>891</b>     | —                 | .125 (3.2)   |            |                       |
| <b>892</b>     | <b>1490</b>       | .250 (6.4)   |            |                       |
| <b>893</b>     | <b>1491</b>       | .375 (9.5)   |            |                       |
| <b>894</b>     | <b>1492</b>       | .500 (12.7)  |            |                       |
| <b>895</b>     | —                 | .625 (15.9)  |            |                       |
| <b>896</b>     | <b>1493</b>       | .750 (19.1)  |            |                       |
| <b>897</b>     | —                 | .875 (22.2)  |            |                       |
| <b>898</b>     | <b>1494</b>       | 1.000 (25.4) | .312 (7.9) | .196 (5.0)<br>For #10 |
| <b>799</b>     | <b>374</b>        | 1.500 (38.1) |            |                       |
| —              | <b>375</b>        | 2.000 (50.8) |            |                       |
| <b>790</b>     | <b>453</b>        | .250 (6.4)   |            |                       |
| <b>791</b>     | <b>454</b>        | .375 (9.5)   |            |                       |
| <b>792</b>     | <b>455</b>        | .500 (12.7)  |            |                       |
| <b>793</b>     | —                 | .625 (15.9)  |            |                       |
| <b>794</b>     | <b>456</b>        | .750 (19.1)  |            |                       |
| <b>795</b>     | —                 | .875 (22.2)  |            |                       |
| <b>796</b>     | <b>457</b>        | 1.000 (25.4) |            |                       |
| <b>797</b>     | <b>458</b>        | 1.500 (38.1) |            |                       |
| —              | <b>459</b>        | 2.000 (50.8) |            |                       |

## ALUMINUM ECONOMY SPACERS

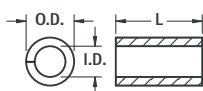
- Made of flat strip aluminum and rolled on precision equipment.
- Assures maximum bearing surface, square ends.

## Aluminum:

5052-H34 per QQ-A-250/8b



- Tight Joint on Outside Diameter



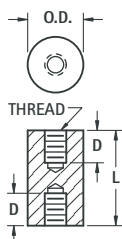
| SPACER FOR | I.D.       | O.D. REF.  |
|------------|------------|------------|
| # 4        | .120 (3.0) | .167 (4.3) |
| # 6        | .148 (3.8) | .193 (4.9) |
| # 8        | .176 (4.5) | .232 (5.9) |

| L LENGTH    | SCREW CLEARANCE |              |              |
|-------------|-----------------|--------------|--------------|
|             | # 4 CAT. NO.    | # 6 CAT. NO. | # 8 CAT. NO. |
| .187 (4.7)  | <b>397</b>      | —            | —            |
| .250 (6.4)  | <b>398</b>      | <b>405</b>   | <b>412</b>   |
| .312 (7.9)  | <b>399</b>      | <b>406</b>   | <b>413</b>   |
| .375 (9.5)  | <b>400</b>      | <b>407</b>   | <b>414</b>   |
| .437 (11.1) | <b>401</b>      | <b>408</b>   | <b>415</b>   |
| .500 (12.7) | <b>402</b>      | <b>409</b>   | <b>416</b>   |
| .625 (15.9) | <b>403</b>      | <b>410</b>   | <b>417</b>   |

| L LENGTH     | SCREW CLEARANCE |              |              |
|--------------|-----------------|--------------|--------------|
|              | # 4 CAT. NO.    | # 6 CAT. NO. | # 8 CAT. NO. |
| .750 (19.1)  | <b>418</b>      | <b>425</b>   | <b>432</b>   |
| .875 (22.2)  | <b>419</b>      | <b>426</b>   | <b>433</b>   |
| 1.000 (25.4) | <b>420</b>      | <b>427</b>   | <b>434</b>   |
| 1.250 (31.8) | <b>421</b>      | <b>428</b>   | <b>435</b>   |
| 1.500 (38.1) | <b>422</b>      | <b>429</b>   | <b>436</b>   |
| 1.750 (44.5) | —               | <b>430</b>   | <b>437</b>   |
| 2.000 (50.8) | —               | —            | <b>438</b>   |

## CERAMIC STANDOFFS

- Ideal for very high temperature conditions
- Commercial and military types available
- Military types meet MIL-1-010, NL # clearly marked
- Exceptional strength in compression and tension
- Withstands very high voltage without flashover
- Special sizes available upon request



MATERIAL: Grade L5 Ceramic

| COMMERCIAL  |               |             |          |             |
|-------------|---------------|-------------|----------|-------------|
| CAT. NO.    | L LENGTH      | O.D.        | T THREAD | D DEPTH     |
| <b>7710</b> | .250 (6.4)    | .250 (6.4)  | 6-32     | THRU        |
| <b>7711</b> | .500 (12.7)   | .250 (6.4)  | 6-32     | .156 (4.0)  |
| <b>7712</b> | .375 (9.5)    | .375 (9.5)  | 6-32     | .156 (4.0)  |
| <b>7713</b> | .500 (12.7)   | .375 (9.5)  | 6-32     | .156 (4.0)  |
| <b>7714</b> | .500 (12.7)   | .500 (12.7) | 6-32     | .140 (3.6)  |
| <b>7715</b> | .750 (19.1)   | .500 (12.7) | 6-32     | .250 (6.4)  |
| <b>7716</b> | 1.000 (25.4)  | .500 (12.7) | 6-32     | .375 (9.5)  |
| <b>7717</b> | 1.500 (38.1)  | .500 (12.7) | 6-32     | .562 (14.3) |
| <b>7718</b> | 2.500 (63.5)  | .500 (12.7) | 6-32     | .500 (12.7) |
| <b>7719</b> | 2.500 (63.5)  | .750 (19.1) | 1/4 - 20 | .750 (19.1) |
| <b>7720</b> | 4.000 (101.6) | .750 (19.1) | 1/4 - 20 | .750 (19.1) |

## MILITARY

| CAT. NO.    | L LENGTH     | O.D.         | T THREAD | D DEPTH     | NL #         |
|-------------|--------------|--------------|----------|-------------|--------------|
| <b>7661</b> | .500 (12.7)  | .375 (9.5)   | 6-32     | .156 (4.0)  | NL523W01-004 |
| <b>7662</b> | .625 (15.9)  | .375 (9.5)   | 6-32     | .250 (6.4)  | NL523W01-005 |
| <b>7663</b> | .625 (15.9)  | .500 (12.7)  | 8-32     | .187 (4.7)  | NL523W02-005 |
| <b>7664</b> | .750 (19.1)  | .375 (9.5)   | 6-32     | .250 (6.4)  | NL523W01-006 |
| <b>7665</b> | .750 (19.1)  | .500 (12.7)  | 8-32     | .250 (6.4)  | NL523W02-006 |
| <b>7666</b> | 1.000 (25.4) | .375 (9.5)   | 6-32     | .375 (9.5)  | NL523W01-008 |
| <b>7667</b> | 1.000 (25.4) | .500 (12.7)  | 8-32     | .375 (9.5)  | NL523W02-008 |
| <b>7668</b> | 1.000 (25.4) | .750 (19.1)  | 10-32    | .375 (9.5)  | NL523W03-008 |
| <b>7669</b> | 1.250 (31.8) | .375 (9.5)   | 6-32     | .375 (9.5)  | NL523W01-010 |
| <b>7670</b> | 1.250 (31.8) | .500 (12.7)  | 8-32     | .375 (9.5)  | NL523W02-010 |
| <b>7671</b> | 1.250 (31.8) | 1.000 (25.4) | 1/4 - 20 | .437 (11.1) | NL523W04-010 |
| <b>7672</b> | 1.500 (38.1) | .375 (9.5)   | 6-32     | .375 (9.5)  | NL523W01-012 |
| <b>7673</b> | 1.500 (38.1) | .500 (12.7)  | 8-32     | .375 (9.5)  | NL523W02-012 |
| <b>7674</b> | 1.500 (38.1) | .750 (19.1)  | 10-32    | .375 (9.5)  | NL523W03-012 |
| <b>7675</b> | 1.500 (38.1) | 1.000 (25.4) | 1/4 - 20 | .500 (12.7) | NL523W04-012 |
| <b>7676</b> | 2.000 (50.8) | .375 (9.5)   | 6-32     | .375 (9.5)  | NL523W01-016 |
| <b>7677</b> | 2.000 (50.8) | .500 (12.7)  | 8-32     | .375 (9.5)  | NL523W02-016 |
| <b>7678</b> | 2.000 (50.8) | .750 (19.1)  | 10-32    | .375 (9.5)  | NL523W03-016 |