

## SMD Steel Spacer with external Thread

**NEW!**

### Characteristics

- Material: Steel
- Surface: Tin plated
- Tightening torque: M3 (0.5Nm)
- Packaging: Bulk, Reel
- Reeled types with absorption cap

### Soldering

- JEDEC J-STD-020D

### Applications

- Simple and fast automated assembly
- For distances from 5 to 15 mm
- Closed type with external thread
- High mechanical forces and torques

Other sizes and/or special types available on request.

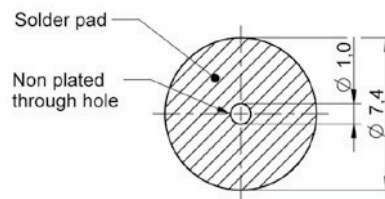


### Dimensions (mm)

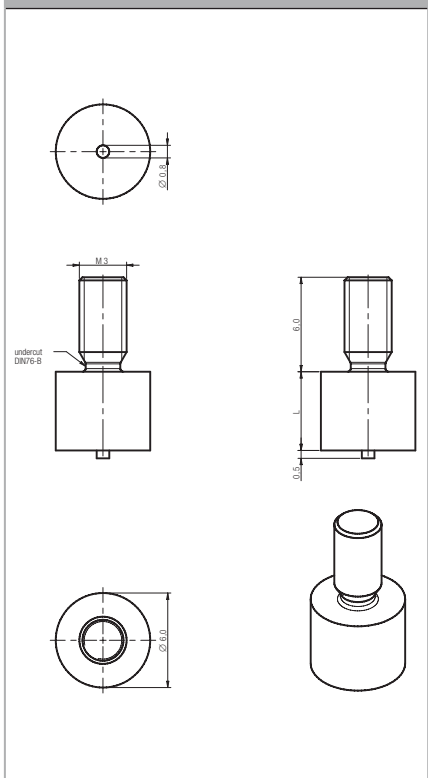
| Order Code Bulk | Order Code Reel | Outer diameter (mm) | L (mm) | Thread Size   | Pcs per reel |
|-----------------|-----------------|---------------------|--------|---------------|--------------|
| 977 105 036 0   | 977 105 036 0R  | 6                   | 5      | M3x6 external | 300          |
| 977 106 036 0   | 977 106 036 0R  |                     | 6      | M3x6 external | 300          |
| 977 107 036 0   | 977 107 036 0R  |                     | 7      | M3x6 external | 200          |
| 977 108 036 0   | 977 108 036 0R  |                     | 8      | M3x6 external | 200          |
| 977 109 036 0   | 977 109 036 0R  |                     | 9      | M3x6 external | 200          |
| 977 110 036 0   | 977 110 036 0R  |                     | 10     | M3x6 external | 200          |
| 977 111 036 0   | 977 111 036 0R  |                     | 11     | M3x6 external | 150          |
| 977 112 036 0   | 977 112 036 0R  |                     | 12     | M3x6 external | 150          |
| 977 113 036 0   | 977 113 036 0R  |                     | 13     | M3x6 external | 150          |
| 977 114 036 0   | 977 114 036 0R  |                     | 14     | M3x6 external | 150          |
| 977 115 036 0   | 977 115 036 0R  |                     | 15     | M3x6 external | 150          |

Even poles delivered ex stock. Samples of odd pole types delivered ex stock, delivery on request. Information in this publication is subject to change.  
The process of continually improving our product range leads to changes in content. For new designs please refer to the latest data sheets on [www.we-online.com](http://www.we-online.com) or contact our technical field staff.

### PCB Layout (mm)



### Dimensions (mm)




**NEW!**

## Characteristics

- Material: Steel
- Surface: Tin plated
- Packaging: Bulk, Reel
- Reeled types with kapton

## Soldering

- JEDEC J-STD-020D

## Applications

- Simple and fast automated assembly
- For distances from 1 to 15 mm
- High mechanical forces and torques

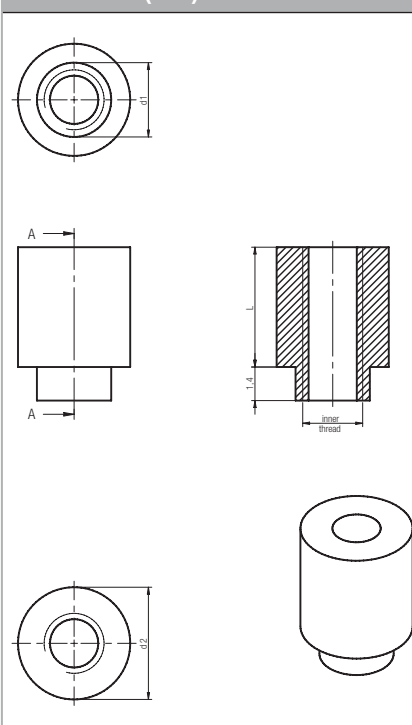
**By special order:** Other sizes and/or special types available on request.


**2**

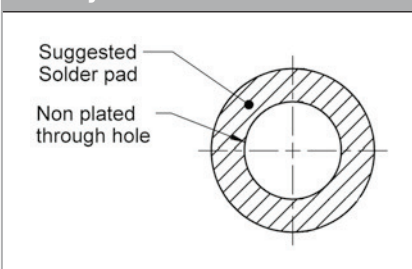
## Dimensions (mm)

| Order Code Bulk | Order Code Reel | d1 (mm) | d2 (mm) | L (mm) | Thread Size | Pcs per reel |
|-----------------|-----------------|---------|---------|--------|-------------|--------------|
| 977 401 024 3   | 977 401 024 3R  | 2.8     | 4.35    | 1      | M 2.0       | 1200         |
| 977 401 524 3   | 977 401 524 3R  | 2.8     | 4.35    | 1.5    | M 2.0       | 1200         |
| 977 402 024 3   | 977 402 024 3R  | 2.8     | 4.35    | 2      | M 2.0       | 950          |
| 977 402 524 3   | 977 402 524 3R  | 2.8     | 4.35    | 2.5    | M 2.0       | 950          |
| 977 403 024 3   | 977 403 024 3R  | 2.8     | 4.35    | 3      | M 2.0       | 800          |
| 977 403 524 3   | 977 403 524 3R  | 2.8     | 4.35    | 3.5    | M 2.0       | 800          |
| 977 404 024 3   | 977 404 024 3R  | 2.8     | 4.35    | 4      | M 2.0       | 600          |
| 977 404 524 3   | 977 404 524 3R  | 2.8     | 4.35    | 4.5    | M 2.0       | 600          |
| 977 405 024 3   | 977 405 024 3R  | 2.8     | 4.35    | 5      | M 2.0       | 600          |
| 977 406 024 3   | 977 406 024 3R  | 2.8     | 4.35    | 6      | M 2.0       | 400          |
| 977 407 024 3   | 977 407 024 3R  | 2.8     | 4.35    | 7      | M 2.0       | 400          |
| 977 408 024 3   | 977 408 024 3R  | 2.8     | 4.35    | 8      | M 2.0       | 400          |
| 977 401 015 1   | 977 401 015 1R  | 3.5     | 5.1     | 1      | M 2.5       | 1200         |
| 977 401 515 1   | 977 401 515 1R  | 3.5     | 5.1     | 1.5    | M 2.5       | 1200         |
| 977 402 015 1   | 977 402 015 1R  | 3.5     | 5.1     | 2      | M 2.5       | 950          |
| 977 402 515 1   | 977 402 515 1R  | 3.5     | 5.1     | 2.5    | M 2.5       | 950          |
| 977 403 015 1   | 977 403 015 1R  | 3.5     | 5.1     | 3      | M 2.5       | 700          |
| 977 404 015 1   | 977 404 015 1R  | 3.5     | 5.1     | 4      | M 2.5       | 700          |
| 977 405 015 1   | 977 405 015 1R  | 3.5     | 5.1     | 5      | M 2.5       | 450          |
| 977 406 015 1   | 977 406 015 1R  | 3.5     | 5.1     | 6      | M 2.5       | 450          |
| 977 407 015 1   | 977 407 015 1R  | 3.5     | 5.1     | 7      | M 2.5       | 450          |
| 977 408 015 1   | 977 408 015 1R  | 3.5     | 5.1     | 8      | M 2.5       | 300          |
| 977 409 015 1   | 977 409 015 1R  | 3.5     | 5.1     | 9      | M 2.5       | 300          |
| 977 410 015 1   | 977 410 015 1R  | 3.5     | 5.1     | 10     | M 2.5       | 300          |
| 977 401 036 0   | 977 401 036 0R  | 4.2     | 6.0     | 1      | M 3.0       | 1200         |
| 977 401 536 0   | 977 401 536 0R  | 4.2     | 6.0     | 1.5    | M 3.0       | 1200         |
| 977 402 036 0   | 977 402 036 0R  | 4.2     | 6.0     | 2      | M 3.0       | 1200         |
| 977 402 536 0   | 977 402 536 0R  | 4.2     | 6.0     | 2.5    | M 3.0       | 1200         |
| 977 403 036 0   | 977 403 036 0R  | 4.2     | 6.0     | 3      | M 3.0       | 650          |
| 977 404 036 0   | 977 404 036 0R  | 4.2     | 6.0     | 4      | M 3.0       | 650          |
| 977 405 036 0   | 977 405 036 0R  | 4.2     | 6.0     | 5      | M 3.0       | 650          |
| 977 406 036 0   | 977 406 036 0R  | 4.2     | 6.0     | 6      | M 3.0       | 450          |
| 977 407 036 0   | 977 407 036 0R  | 4.2     | 6.0     | 7      | M 3.0       | 450          |
| 977 408 036 0   | 977 408 036 0R  | 4.2     | 6.0     | 8      | M 3.0       | 450          |
| 977 409 036 0   | 977 409 036 0R  | 4.2     | 6.0     | 9      | M 3.0       | 300          |
| 977 410 036 0   | 977 410 036 0R  | 4.2     | 6.0     | 10     | M 3.0       | 300          |
| 977 411 036 0   | 977 411 036 0R  | 4.2     | 6.0     | 11     | M 3.0       | 300          |
| 977 412 036 0   | 977 412 036 0R  | 4.2     | 6.0     | 12     | M 3.0       | 300          |
| 977 413 036 0   | 977 413 036 0R  | 4.2     | 6.0     | 13     | M 3.0       | 250          |
| 977 414 036 0   | 977 414 036 0R  | 4.2     | 6.0     | 14     | M 3.0       | 250          |
| 977 415 036 0   | 977 415 036 0R  | 4.2     | 6.0     | 15     | M 3.0       | 250          |

## Dimensions (mm)



## PCB Layout



# WA-SMST

## SMD Steel Spacer no Thread

**NEW!**

### Characteristics

- Material: Steel
- Surface: Tin plated
- Packaging: Bulk, Reel
- Reeled types with kapton

### Soldering

- JEDEC J-STD-020D

### Applications

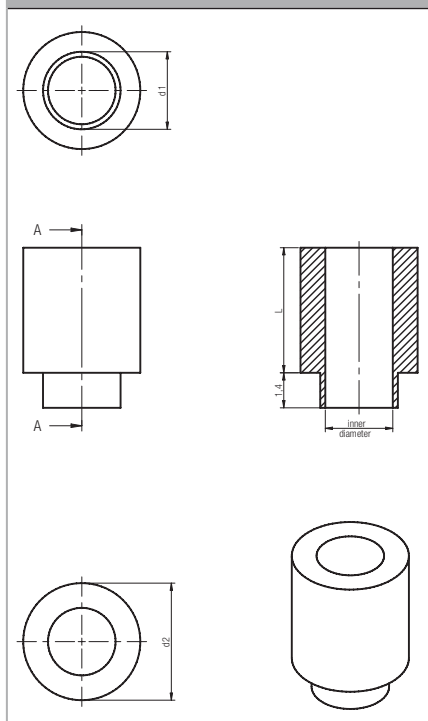
- Simple and fast automated assembly
- For distances from 1 to 15 mm
- With non stop internal diameter (2.7 mm and 3.3 mm)
- High mechanical strength



### Dimensions (mm)

| Order Code Bulk | Order Code Reel | d1 (mm) | d2 (mm) | L (mm) | Inner Diameter | Pcs per reel |
|-----------------|-----------------|---------|---------|--------|----------------|--------------|
| 977 401 095 1   | 977 401 095 1R  | 3.5     | 5.1     | 1      | 2.7            | 1200         |
| 977 401 595 1   | 977 401 595 1R  | 3.5     | 5.1     | 1.5    | 2.7            | 1200         |
| 977 402 095 1   | 977 402 095 1R  | 3.5     | 5.1     | 2      | 2.7            | 950          |
| 977 402 595 1   | 977 402 595 1R  | 3.5     | 5.1     | 2.5    | 2.7            | 950          |
| 977 403 095 1   | 977 403 095 1R  | 3.5     | 5.1     | 3      | 2.7            | 700          |
| 977 404 095 1   | 977 404 095 1R  | 3.5     | 5.1     | 4      | 2.7            | 700          |
| 977 405 095 1   | 977 405 095 1R  | 3.5     | 5.1     | 5      | 2.7            | 450          |
| 977 406 095 1   | 977 406 095 1R  | 3.5     | 5.1     | 6      | 2.7            | 450          |
| 977 407 095 1   | 977 407 095 1R  | 3.5     | 5.1     | 7      | 2.7            | 450          |
| 977 408 095 1   | 977 408 095 1R  | 3.5     | 5.1     | 8      | 2.7            | 300          |
| 977 409 095 1   | 977 409 095 1R  | 3.5     | 5.1     | 9      | 2.7            | 300          |
| 977 410 095 1   | 977 410 095 1R  | 3.5     | 5.1     | 10     | 2.7            | 300          |
| 977 401 096 0   | 977 401 096 0R  | 4.2     | 6.0     | 1      | 3.3            | 1200         |
| 977 401 596 0   | 977 401 596 0R  | 4.2     | 6.0     | 1.5    | 3.3            | 1200         |
| 977 402 096 0   | 977 402 096 0R  | 4.2     | 6.0     | 2      | 3.3            | 1200         |
| 977 402 596 0   | 977 402 596 0R  | 4.2     | 6.0     | 2.5    | 3.3            | 1200         |
| 977 403 096 0   | 977 403 096 0R  | 4.2     | 6.0     | 3      | 3.3            | 650          |
| 977 404 096 0   | 977 404 096 0R  | 4.2     | 6.0     | 4      | 3.3            | 650          |
| 977 405 096 0   | 977 405 096 0R  | 4.2     | 6.0     | 5      | 3.3            | 650          |
| 977 406 096 0   | 977 406 096 0R  | 4.2     | 6.0     | 6      | 3.3            | 450          |
| 977 407 096 0   | 977 407 096 0R  | 4.2     | 6.0     | 7      | 3.3            | 450          |
| 977 408 096 0   | 977 408 096 0R  | 4.2     | 6.0     | 8      | 3.3            | 450          |
| 977 409 096 0   | 977 409 096 0R  | 4.2     | 6.0     | 9      | 3.3            | 300          |
| 977 410 096 0   | 977 410 096 0R  | 4.2     | 6.0     | 10     | 3.3            | 300          |
| 977 411 096 0   | 977 411 096 0R  | 4.2     | 6.0     | 11     | 3.3            | 300          |
| 977 412 096 0   | 977 412 096 0R  | 4.2     | 6.0     | 12     | 3.3            | 300          |
| 977 413 096 0   | 977 413 096 0R  | 4.2     | 6.0     | 13     | 3.3            | 250          |
| 977 414 096 0   | 977 414 096 0R  | 4.2     | 6.0     | 14     | 3.3            | 250          |
| 977 415 096 0   | 977 415 096 0R  | 4.2     | 6.0     | 15     | 3.3            | 250          |

### Dimensions (mm)



### PCB Layout

