



(1,27mm) .050"

DWM, HDWM SERIES

HDWM-20-58-G-S-427

HDWM-24-59-L-S-300-SM

DWM-08-56-L-D-312-SM

DWM-06-54-G-D-360

# MICRO BOARD STACKER

## SPECIFICATIONS

### DWM

For complete specifications  
see [www.samtec.com?DWM](http://www.samtec.com?DWM)

#### Insulator Material:

Top: Black LCP  
Bottom: Natural LCP

#### Terminal Material:

Phosphor Bronze

#### Plating:

Au or Sn over

50µ" (1,27µm) Ni

#### Current Rating:

1A

#### Operating Temp Range:

-55°C to + 105°C with Tin

-55°C to + 125°C with Gold

#### RoHS Compliant:

Yes

### HDWM

For complete specifications  
see [www.samtec.com?HDWM](http://www.samtec.com?HDWM)

Same as DWM except  
not CSA rated.

#### Processing:

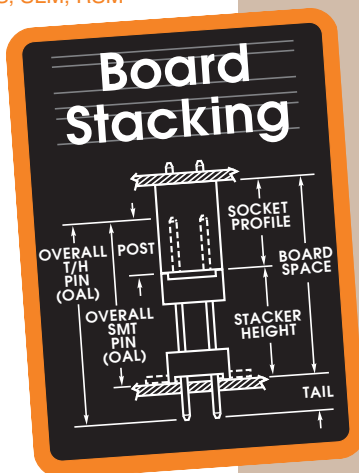
Lead-Free Solderable:

Yes

SMT Lead Coplanarity:

(0,15mm) .006" max

Mates with:  
SMS, SLM, RSM



Variable  
stacker  
height

Ideal for high density  
"skyscraper"  
board stacking

Choice of  
Surface  
mount or  
Through-hole

| TYPE STRIP | NO. PINS PER ROW                                                                                              | LEAD STYLE                                 | PLATING OPTION                                                         | ROW OPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | STACKER HEIGHT                                                            | OTHER OPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |
|------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|-----|--------------|-------------|-----|--------------|---|-----|--------------|---|-----|--------------|-------------|-----|--------------|--------------|-----|--------------|--------------|-----|--------------|--------------|-----|--------------|--------------|-----|--------------|--------------|-----|--------------|--------------|-----|--------------|
|            | <b>01 thru 50</b><br><br><b>DWM</b><br>= Standard Board Spacer<br><br><b>HDWM</b><br>= High Temp Board Spacer | Specify<br><b>LEAD STYLE</b><br>from chart | <b>-L</b><br>= 10µ" (0,25µm)<br>Gold contact,<br>Matte Tin<br>on tail  | <b>-S</b><br>= Single Row<br><br><b>-D</b><br>= Double Row                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>-“XXX”</b><br>= Stacker Height<br>Example:<br>-250 = (6,35mm)<br>.250" | <b>-“XXX”</b><br>= Polarized Position<br>(Specify position of omitted pin)<br><br><b>-SM</b><br>= Surface Mount<br>(Requires HDWM.<br>02 thru 40 positions only.)<br><br><b>-A</b><br>= Alignment Pin<br>(Requires HDWM.<br>6 positions min<br>-D only.)<br>Metal or plastic at<br>Samtec discretion<br>(N/A with -LC)<br><br><b>-LC</b><br>= Locking Clip<br>(Requires HDWM.<br>5 positions min.<br>-D only)<br>(N/A with -A)<br>(Manual placement required)<br><br><b>-P</b><br>= Pick & Place Pad<br>(Requires HDWM) |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |
|            |                                                                                                               |                                            | <b>-G</b><br>= 10µ" (0,25µm)<br>Gold on post,<br>Gold flash<br>on tail | <table border="1"> <thead> <tr> <th>LEAD STYLE</th> <th>THROUGH-HOLE</th> <th>SURFACE MOUNT</th> </tr> </thead> <tbody> <tr><td>-01</td><td>(11,43) .450</td><td>(8,38) .330</td></tr> <tr><td>-51</td><td>(10,41) .410</td><td>—</td></tr> <tr><td>-52</td><td>(10,80) .425</td><td>—</td></tr> <tr><td>-53</td><td>(12,83) .505</td><td>(9,78) .385</td></tr> <tr><td>-54</td><td>(14,10) .555</td><td>(11,05) .435</td></tr> <tr><td>-55</td><td>(15,49) .610</td><td>(12,45) .490</td></tr> <tr><td>-56</td><td>(15,88) .625</td><td>(12,83) .505</td></tr> <tr><td>-57</td><td>(16,51) .650</td><td>(13,46) .530</td></tr> <tr><td>-58</td><td>(17,91) .705</td><td>(14,86) .585</td></tr> <tr><td>-59</td><td>(19,18) .755</td><td>(15,62) .615</td></tr> <tr><td>-60</td><td>(20,96) .825</td><td>—</td></tr> <tr><td>-61</td><td>(26,67) 1.050</td><td>—</td></tr> </tbody> </table> | LEAD STYLE                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | THROUGH-HOLE | SURFACE MOUNT | -01 | (11,43) .450 | (8,38) .330 | -51 | (10,41) .410 | — | -52 | (10,80) .425 | — | -53 | (12,83) .505 | (9,78) .385 | -54 | (14,10) .555 | (11,05) .435 | -55 | (15,49) .610 | (12,45) .490 | -56 | (15,88) .625 | (12,83) .505 | -57 | (16,51) .650 | (13,46) .530 | -58 | (17,91) .705 | (14,86) .585 | -59 | (19,18) .755 | (15,62) .615 | -60 | (20,96) .825 |
| LEAD STYLE | THROUGH-HOLE                                                                                                  | SURFACE MOUNT                              |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |
| -01        | (11,43) .450                                                                                                  | (8,38) .330                                |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |
| -51        | (10,41) .410                                                                                                  | —                                          |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |
| -52        | (10,80) .425                                                                                                  | —                                          |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |
| -53        | (12,83) .505                                                                                                  | (9,78) .385                                |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |
| -54        | (14,10) .555                                                                                                  | (11,05) .435                               |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |
| -55        | (15,49) .610                                                                                                  | (12,45) .490                               |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |
| -56        | (15,88) .625                                                                                                  | (12,83) .505                               |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |
| -57        | (16,51) .650                                                                                                  | (13,46) .530                               |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |
| -58        | (17,91) .705                                                                                                  | (14,86) .585                               |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |
| -59        | (19,18) .755                                                                                                  | (15,62) .615                               |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |
| -60        | (20,96) .825                                                                                                  | —                                          |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |
| -61        | (26,67) 1.050                                                                                                 | —                                          |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |

(1,27) .050 X  
No. of Positions

(2,48) .098

(1,27) .050 TYP

(2,54) .100

(4,98) .196

(0,46) .018 SQ

(0,51) .020

(0,00) .000 MIN

(2,54) .100

(3,05) .120

(0,51) .020 DIA

STACKER HEIGHT  
(5,08) .200 MIN

(1,27) .050 TYP

STACKER HEIGHT  
(6,35) .250 MIN

OAL

**Note:** Other Gold plating options available.  
Contact Samtec.

**Note:** These Series are non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.

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