

**(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:**

**Operating Temp Range:**

**Operating Temp Range:**  
-55°C to +105°C with Tin

-55°C to +125°C

Rot  
Yes

## HDWM

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

Same as DWM except  
not CSA rated.



### Processing:

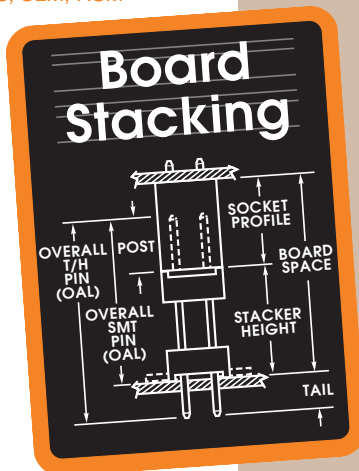
**Lead-Free Solderable:**

Yes

### SMT Lead Coplanarity:

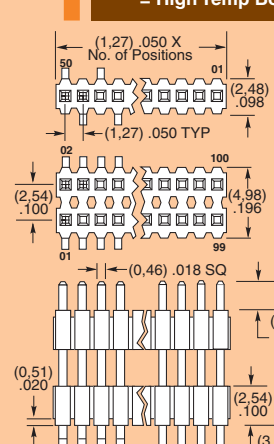
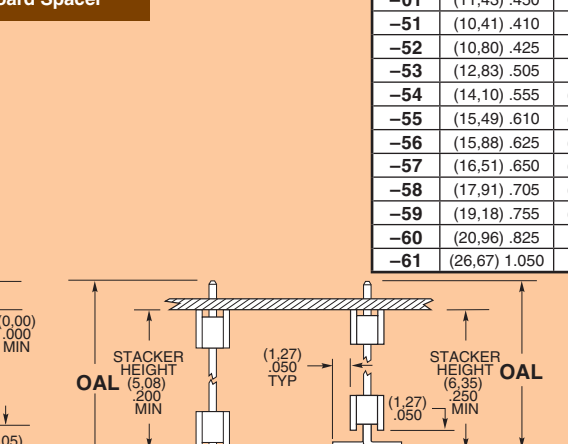
(0,15mm) .006" max

**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                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |     |  |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |   |     |               |   |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 01 thru 50                                                                           | Specify LEAD STYLE from chart | <b>-L</b><br>= 10μ" (0.25μm)<br>Gold contact, Matte Tin on tail<br><br><b>-G</b><br>= 10μ" (0.25μm)<br>Gold on post, Gold flash on tail | <b>-S</b><br>= Single Row<br><br><b>-D</b><br>= Double Row | <b>-“XXX”</b><br>= Stacker Height Example:<br>-250 = (6.35mm) .250" | <b>-“XXX”</b><br>= Polarized Position (Specify position of omitted pin)<br><br><b>-SM</b><br>= Surface Mount (Requires HDWM. 02 thru 40 positions only.)<br><br><b>-A</b><br>= Alignment Pin (Requires HDWM. 6 positions min -D only.) Metal or plastic at Samtec discretion (N/A with -LC)<br><br><b>-LC</b><br>= Locking Clip (Requires HDWM. 5 positions min. -D only) (N/A with -A) (Manual placement required)<br><br><b>-P</b><br>= Pick & Place Pad (Requires HDWM) |            |     |  |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |   |     |               |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>DWM</b><br>= Standard Board Spacer<br><br><b>HDWM</b><br>= High Temp Board Spacer |                               |                                                                                                                                         |                                                            |                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |     |  |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |   |     |               |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |                               |                                                                                                                                         |                                                            |                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |     |  |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |   |     |               |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                      |                               |                                                                                                                                         |                                                            |                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |     |  |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |   |     |               |   |
| <table><tr><th rowspan="2">LEAD STYLE</th><th colspan="2">OAL</th></tr><tr><th>THROUGH-HOLE</th><th>SURFACE MOUNT</th></tr><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></table> |                                                                                      |                               |                                                                                                                                         |                                                            |                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | LEAD STYLE | OAL |  | 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 | — |
| LEAD STYLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | OAL                                                                                  |                               |                                                                                                                                         |                                                            |                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |     |  |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |   |     |               |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 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                                                                        | —                             |                                                                                                                                         |                                                            |                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |     |  |              |               |     |              |             |     |              |   |     |              |   |     |              |             |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |              |     |              |   |     |               |   |

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

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