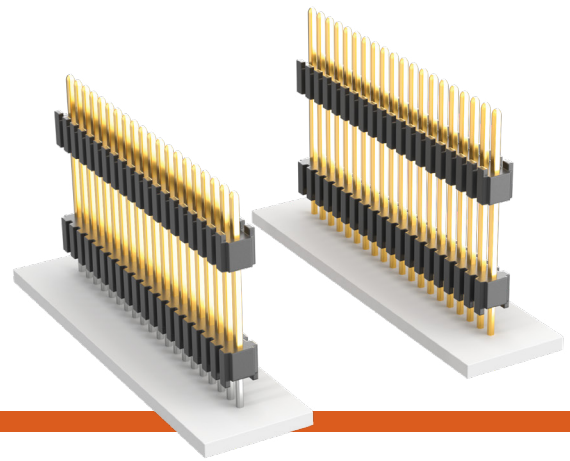


# MICRO BOARD STACKER

(1.27 mm) .050" PITCH • DWM/HDWM SERIES



## DWM/HDWM

**Mates:**  
SMS, SLM, RSM

### SPECIFICATIONS

**Insulator Material:**  
Liquid Crystal Polymer  
**Terminal Material:**  
Phosphor Bronze  
**Plating:**  
Au or Sn over 50  $\mu$ " (1.27  $\mu$ m) Ni  
**Operating Temp Range:**  
-55 °C to +105 °C with Tin  
-55 °C to +125 °C with Gold

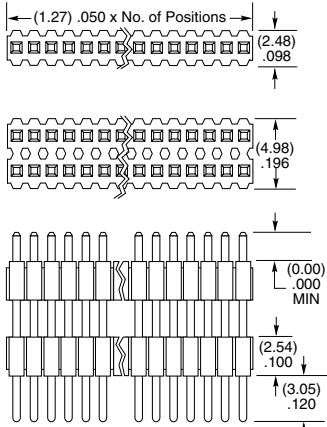
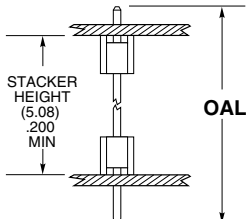
### PROCESSING

**Lead-Free Solderable:**  
Yes  
**SMT Lead Coplanarity:**  
(0.15 mm) .006" max\*  
\*(.004" stencil solution may be available; contact ipg@samtec.com)

### ALSO AVAILABLE

Contact Samtec

Other Platings

| DWM                                                                                | NO. PINS PER ROW | LEAD STYLE                    | PLATING OPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ROW OPTION                                                 | STACKER HEIGHT                                                           | OTHER OPTION                                                                |     |  |            |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |               |
|------------------------------------------------------------------------------------|------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----|--|------------|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|---------------|
|                                                                                    | 01 thru 50       | Specify LEAD STYLE from chart | <b>-L</b><br>= 10 μ"<br>(0.25 μm)<br>Gold on contact,<br>Matte Tin on tail<br><br><b>-G</b><br>= 10 μ"<br>(0.25 μm)<br>Gold on contact,<br>Gold flash 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>-200 = (5.08 mm) .200" | <b>- "XXX"</b><br>= Polarized Position<br>(Specify position of omitted pin) |     |  |            |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |               |
|  |                  |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                            |                                                                          |                                                                             |     |  |            |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |               |
|                                                                                    |                  |                               | <table><tr><th colspan="2">OAL</th></tr><tr><th>LEAD STYLE</th><th>THROUGH-HOLE</th></tr><tr><td>-01</td><td>(11.43) .450</td></tr><tr><td>-51</td><td>(10.41) .410</td></tr><tr><td>-52</td><td>(10.80) .425</td></tr><tr><td>-53</td><td>(12.83) .505</td></tr><tr><td>-54</td><td>(14.10) .555</td></tr><tr><td>-55</td><td>(15.49) .610</td></tr><tr><td>-56</td><td>(15.88) .625</td></tr><tr><td>-57</td><td>(16.51) .650</td></tr><tr><td>-58</td><td>(17.91) .705</td></tr><tr><td>-59</td><td>(19.18) .755</td></tr><tr><td>-60</td><td>(20.96) .825</td></tr><tr><td>-61</td><td>(26.67) 1.050</td></tr></table> |                                                            |                                                                          |                                                                             | OAL |  | LEAD STYLE | THROUGH-HOLE | -01 | (11.43) .450 | -51 | (10.41) .410 | -52 | (10.80) .425 | -53 | (12.83) .505 | -54 | (14.10) .555 | -55 | (15.49) .610 | -56 | (15.88) .625 | -57 | (16.51) .650 | -58 | (17.91) .705 | -59 | (19.18) .755 | -60 | (20.96) .825 | -61 | (26.67) 1.050 |
| OAL                                                                                |                  |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                            |                                                                          |                                                                             |     |  |            |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |               |
| LEAD STYLE                                                                         | THROUGH-HOLE     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                            |                                                                          |                                                                             |     |  |            |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |               |
| -01                                                                                | (11.43) .450     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                            |                                                                          |                                                                             |     |  |            |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |               |
| -51                                                                                | (10.41) .410     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                            |                                                                          |                                                                             |     |  |            |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |               |
| -52                                                                                | (10.80) .425     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                            |                                                                          |                                                                             |     |  |            |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |               |
| -53                                                                                | (12.83) .505     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                            |                                                                          |                                                                             |     |  |            |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |               |
| -54                                                                                | (14.10) .555     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                            |                                                                          |                                                                             |     |  |            |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |               |
| -55                                                                                | (15.49) .610     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                            |                                                                          |                                                                             |     |  |            |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |               |
| -56                                                                                | (15.88) .625     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                            |                                                                          |                                                                             |     |  |            |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |               |
| -57                                                                                | (16.51) .650     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                            |                                                                          |                                                                             |     |  |            |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |               |
| -58                                                                                | (17.91) .705     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                            |                                                                          |                                                                             |     |  |            |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |               |
| -59                                                                                | (19.18) .755     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                            |                                                                          |                                                                             |     |  |            |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |               |
| -60                                                                                | (20.96) .825     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                            |                                                                          |                                                                             |     |  |            |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |               |
| -61                                                                                | (26.67) 1.050    |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                            |                                                                          |                                                                             |     |  |            |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |              |     |               |

| HDWM | NO. PINS PER ROW | LEAD STYLE                    | PLATING OPTION                                                                                                                                                              | ROW OPTION                                                 | STACKER HEIGHT                                                           | OTHER OPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------|------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | 01 thru 50       | Specify LEAD STYLE from chart | <b>-L</b><br>= 10 $\mu$ "<br>(0.25 $\mu$ m)<br>Gold on contact, Matte Tin on tail<br><br><b>-G</b><br>= 10 $\mu$ "<br>(0.25 $\mu$ m)<br>Gold on contact, Gold flash 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 = (6.35 mm) .250" | <b>- "XXX"</b><br>= Polarized Position<br>(Specify position of omitted pin)<br><br><b>- SM</b><br>= Surface Mount<br>(02 thru 40 positions only)<br><br><b>- A</b><br>= Alignment Pin<br>(6 positions minimum -D only)<br>Metal or plastic at Samtec discretion<br>(Not available with -LC)<br><br><b>- LC</b><br>= Locking Clip<br>(5 positions minimum -D only)<br>(Not available with -A)<br>(Manual placement required)<br><br><b>- P</b><br>= Pick & Place Pad |
|      |                  |                               |                                                                                                                                                                             |                                                            |                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Notes:**  
For added mechanical stability, Samtec recommends mechanical board spacers be used in applications with gold or selective gold plated connectors. Contact ipg@samtec.com for more information.

This Series is non-standard, non-returnable.