



Except MSAS 3 days.

MPAS-068-ZSGT-11

MPAS-144-ZSGT-13

# PIN GRID ARRAY SOCKETS

Mates with:  
MPAT, MVAT, MHAT,  
MSAT

## Specifications:

**MPAS, MVAS**  
Insulator Material: Black Glass Filled Polyester  
Operating Temp Range: -65°C to +105°C with Tin, -65°C to +125°C with Gold Plating:  
Au over 50µ" (1.27µm) Ni or Sn over 100µ" (2.58µm) Cu or 50µ" (1.27µm) Ni  
Current Rating: 1A  
Contact: BeCu  
Shell: Erass except Style K Phosphor Bronze  
Contact Resistance: 10mΩ max  
Lead Size Range: .015" (0.38mm) to .022" (0.56mm) DIA except Style ZL = .015" (0.38mm) to .020" (0.51mm) DIA; ZM = .016" (0.41mm) to .021" (.53mm) DIA; ZN = .015" (0.41mm) to .020" (.51mm) DIA  
Insertion Force: Style ZL = 1.5oz (0.42N) max, all others = 2.5 oz (0.69N) avg, 5.5 oz (1.53N) max, except Styles J & K = 9 oz (2.50N) avg, 16 oz (4.45N) max  
Withdrawal Force: Style ZL = 1.5oz (0.42N) max, all others 2.0 oz (0.56N) avg, 0.35 oz (0.97N) min except Styles J & K = 2.5 oz (0.69N) avg, 1.5 oz (0.42N) min

**Specifications:**  
**MSAS**  
Same as: MPAS except:  
Insulator Material: Black Liquid Crystal Polymer  
Max Processing Temp: 230°C for 30 to 60 seconds

**Specifications:**  
**MHAS**  
Same as: MPAS except:  
Insulator Material: Black High Temp. Plastic

Note: Some sizes, styles and options are non-standard, non-returnable.

BODY STYLE	PIN COUNT	LEAD STYLE	PLATING OPTION	PIN OUT CODE	OPTION
<p><b>MPAS</b> = Standard Polyester</p> <p><b>MVAS</b> = Open Body Polyester</p> <p><b>MSAS</b> = Hi-Temp LCP Open Body</p>	<p>— "XXX"</p> <p>= Total Number Of Filled Positions</p>	<p><b>GG</b> = 30µ" (0.76µm) Gold Contact 10µ" (0.25µm) Gold Shell</p> <p><b>GT</b> = 30µ" (0.76µm) Gold Contact 200µ" (5.08µm) Tin Shell</p> <p><b>TT</b> = 200µ" (5.08µm) Tin Contact and Shell (Styles -ZS &amp; ZW Only)</p> <p><b>ST</b> = 10µ" (5.08µm) Gold Contact 200µ" (5.08µm) Tin Shell (Style -ZS only)</p>	<p><b>-2</b> = (9,14),360 Wire-Wrap (-ZW Only)</p> <p><b>-3</b> = (6,60),260 Wire-Wrap (-ZW Only)</p> <p><b>-L</b> = Locking Socket (-ZS Only)</p>		

*New!*  
**Ultra-LIF**  
1.5oz (0.42N) Max Insertion Force  
45g (0.44N) Normal Force  
Specify Style -ZU

-ZS, -ZU, -ZA, -J, -K = Printed Circuit	-ZW = Wire-Wrap	-ZE or -ZH = Elevated																																			
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<p><b>-ZL = Low Profile</b></p>	<p><b>-ZM = Low Profile</b></p>	<p><b>-ZN or ZC = Micro Socket</b></p> <table border="1"> <thead> <tr> <th>LEAD STYLE</th> <th>X DIA</th> <th>W HEAD</th> <th>Y</th> <th>Z OAL</th> </tr> </thead> <tbody> <tr> <td>-ZN</td> <td>(0.76) .030</td> <td>(0.51) .020</td> <td>(2.41) .095</td> <td>(4.83) .190</td> </tr> <tr> <td>-ZC</td> <td>(0.74) .029</td> <td>(0.25) .010</td> <td>(2.11) .083</td> <td>(4.59) .165</td> </tr> </tbody> </table>	LEAD STYLE	X DIA	W HEAD	Y	Z OAL	-ZN	(0.76) .030	(0.51) .020	(2.41) .095	(4.83) .190	-ZC	(0.74) .029	(0.25) .010	(2.11) .083	(4.59) .165	<p><b>-ZP or ZT = Short Tail</b></p> <table border="1"> <thead> <tr> <th>LEAD STYLE</th> <th>W HEAD</th> <th>Z OAL</th> </tr> </thead> <tbody> <tr> <td>-ZP</td> <td>(0.76) .030</td> <td>(5.08) .200</td> </tr> <tr> <td>-ZT</td> <td>(0.51) .020</td> <td>(4.24) .167</td> </tr> </tbody> </table>	LEAD STYLE	W HEAD	Z OAL	-ZP	(0.76) .030	(5.08) .200	-ZT	(0.51) .020	(4.24) .167										
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