

(2,54mm) .100"

MPAS, MVAS, MSAS SERIES

# PIN GRID ARRAY SOCKETS

Mates with:  
MPAT, MVAT, MHAT, MSAT

## SPECIFICATIONS

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

### MPAS, MVAS

Insulator Material:  
Black G.F. Polyester



**Contact:**

BeCu

**Shell:**

Brass except Style K  
Phosphor Bronze

**Operating Temp Range:**

-55°C to +105°C with Tin

-55°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 Resistance:**

10mΩ max

**Lead Size Range:**

.015" (0,38mm) to

.022" (0,56mm) DIA

**Insertion Force:**

(Single contact only)

Style ZU = 1.5oz (0,42N) max, all others = 2.5 oz (0,69N) avg,

5.5 oz (1,53N) max

**Withdrawal Force:**

(Single contact only)

Style ZU = 1.5oz (0,42N) max, all others = 2.0 oz (0,56N) avg,

0.35 oz (0,97N) min

**Lead-Free Solderable:**

Wave, only

**RoHS Compliant:**

No

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, Tin Shell</p> <p><b>TT</b> = Tin Contact and Shell (Styles -ZS &amp; ZW Only)</p> <p><b>ST</b> = 10µ" (5,08µm) Gold Contact, Tin Shell (Style -ZS only)</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, Tin Shell</p> <p><b>TT</b> = Tin Contact and Shell (Styles -ZS &amp; ZW Only)</p> <p><b>ST</b> = 10µ" (5,08µm) Gold Contact, 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>	<p><b>ALSO AVAILABLE</b></p> <p>RoHS compliant options. Call Samtec.</p>



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

## SPECIFICATIONS

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

### MSAS

Same as

MPAS except:

Insulator Material:

Black Liquid Crystal Polymer

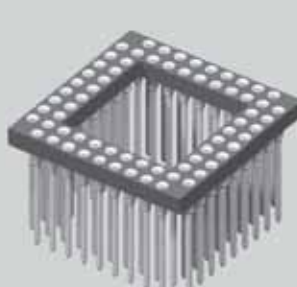


-ZW = Wire Wrap		-ZE = Elevated													
<p>Shorter w/w tail lengths available. See OPTION.</p>															
<p>Insertion Depth = .125" to .157"</p> <p>Style ZW Component Part No. = EZ-1W1(1)</p> <p>Style ZW-2 Component Part No. = EZ-1W1(2)</p> <p>Style ZW-3 Component Part No. = EZ-1W1(3)</p>	<p>Insertion Depth = .125" to .170"</p> <p>Style ZE Component Part No. = EZ-2P3</p>														
-ZS, -ZU, -ZA = Printed Circuit		<table border="1"> <thead> <tr> <th>LEAD STYLE</th> <th>X DIA</th> <th>Y TAIL</th> <th>Z OAL</th> </tr> </thead> <tbody> <tr> <td>-ZS, -ZU</td> <td>(0,51) .020</td> <td>(3,18) .125</td> <td>(7,62) .300</td> </tr> <tr> <td>-ZA</td> <td>(0,51) .020</td> <td>(4,57) .180</td> <td>(8,89) .350</td> </tr> </tbody> </table>		LEAD STYLE	X DIA	Y TAIL	Z OAL	-ZS, -ZU	(0,51) .020	(3,18) .125	(7,62) .300	-ZA	(0,51) .020	(4,57) .180	(8,89) .350
LEAD STYLE	X DIA	Y TAIL	Z OAL												
-ZS, -ZU	(0,51) .020	(3,18) .125	(7,62) .300												
-ZA	(0,51) .020	(4,57) .180	(8,89) .350												
<p>Insertion Depth = .095" to .145"</p> <p>Style ZS Component Part No. = EZ-1P1</p> <p>Style ZU Component Part No. = EZ-6P1</p> <p>Option L Component Part No. = SC-1L1 or EZ-1L1</p>	<p>Locking lead (-L) available. See OPTION.</p>														

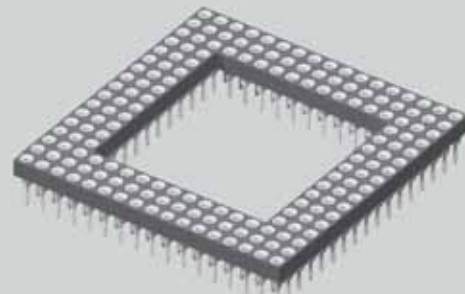
**Note:** Some sizes, styles and options are non-standard, non-returnable.

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

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MVAS-068-ZWTT-11



MVAS-168-ZSGG-17

**MORE STANDARD PIN-OUTS AVAILABLE.  
CALL SAMTEC.**

<p><b>-21=273 Pins</b></p> <p>MSAS only.</p>	<p><b>-18=191 Pins</b></p> <p>MSAS only.</p>	<p><b>-18=179 Pins</b></p> <p>MSAS only.</p>	<p><b>-17=240 Pins</b></p> <p>MVAS &amp; MSAS not available.</p>	<p><b>-17=209 Pins</b></p> <p>MSAS not available.</p>	
<p><b>-17=169 Pins</b></p> <p>MSAS not available.</p>	<p><b>-17=168 Pins</b></p> <p>MSAS not available.</p>	<p><b>-16=172 Pins</b></p> <p>MVAS &amp; MSAS not available.</p>	<p><b>-16=156 Pins</b></p> <p>MSAS only.</p>	<p><b>-15=181 Pins</b></p> <p>MVAS not available.</p>	
<p><b>-15=176 Pins</b></p> <p>MSAS not available.</p>	<p><b>-15B=149 Pins</b></p> <p>MVAS &amp; MSAS not available.</p>	<p><b>-15=145 Pins</b></p> <p>MVAS not available.</p>	<p><b>-14=132 Pins</b></p> <p>MVAS &amp; MSAS not available.</p>	<p><b>-13=169 Pins</b></p> <p>MVAS &amp; MSAS not available.</p>	<p><b>-13A=133 Pins</b></p> <p>MVAS &amp; MSAS not available.</p>
<p><b>-13B=132 Pins</b></p> <p>MVAS &amp; MSAS not available.</p>	<p><b>-13A=124 Pins</b></p> <p>MVAS &amp; MSAS not available.</p>	<p><b>-13A=121 Pins</b></p> <p>MSAS not available.</p>	<p><b>-13=114 Pins</b></p> <p>MVAS &amp; MSAS not available.</p>	<p><b>-13=101 Pins</b></p> <p>MVAS &amp; MSAS not available.</p>	<p><b>-13=088 Pins</b></p> <p>MSAS not available.</p>
<p><b>-11=085 Pins</b></p> <p>MVAS &amp; MSAS not available.</p>	<p><b>-11C=084 Pins</b></p> <p>MSAS not available.</p>	<p><b>-11=069 Pins</b></p> <p>MSAS not available.</p>	<p><b>-11=068 Pins</b></p> <p>MVAS &amp; MSAS not available.</p>	<p><b>-10=084 Pins</b></p> <p>MVAS &amp; MSAS not available.</p>	<p><b>-10=068 Pins</b></p> <p>MSAS not available.</p>

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