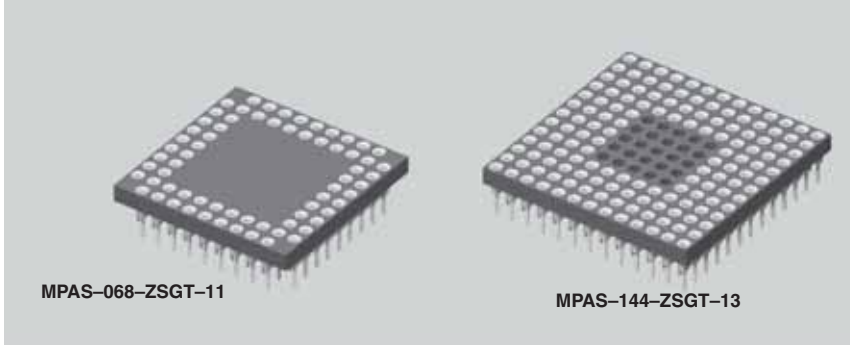




(2,54mm) .100"

MPAS, MVAS, MSAS SERIES



MPAS-068-ZSGT-11

MPAS-144-ZSGT-13

# 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>Requires GT Plating Option</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



Option	Diagram	Insertion Depth	Component Part No.
<b>-ZW = Wire Wrap</b>		.125" to .157"	Style ZW Component Part No. = EZ-1W1(1) Style ZW-2 Component Part No. = EZ-1W1(2) Style ZW-3 Component Part No. = EZ-1W1(3)
<b>-ZE = Elevated</b>		.125" to .170"	Style ZE Component Part No. = EZ-2P3
<b>-ZS, -ZU, -ZA = Printed Circuit</b>		.095" to .145"	Style ZS Component Part No. = EZ-1P1 Style ZA Component Part No. = EZ-6P1 Option L Component Part No. = SC-1L1 or EZ-1L1

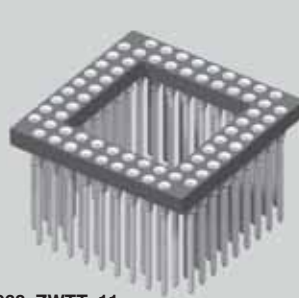
LEAD STYLE	X DIA	Y TAIL	Z OAL
<b>-ZS, -ZU</b>	(0,51) .020	(3,18) .125	(7,62) .300
<b>-ZA</b>	(0,51) .020	(4,57) .180	(8,89) .350

**Locking lead (-L) available. See OPTION.**

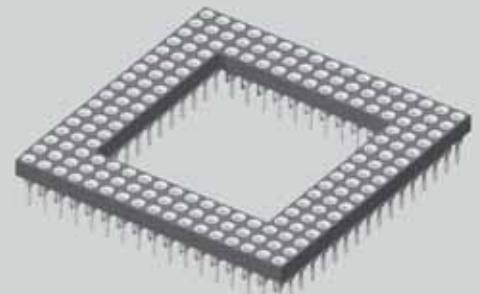
**Note:** Some sizes, styles and options are non-standard, non-returnable.

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

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)



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>MVAS &amp; MSAS not available.</p>	<p><b>-17=168 Pins</b></p> <p>MVAS &amp; 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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