

PIN GRID ARRAY SOCKETS MPAS, MVAS, MHAS, MSAS

Mates with:
MPAT, MVAT, MHAT, MSAT

SPECIFICATIONS

For complete specifications see www.samtec.com?MPAS or 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 except
Style ZL = .015" (0,38mm) to .020" (0,51mm) DIA;
ZM = .016" (0,41mm) to .021" (0,53mm) DIA;
ZN = .016" (0,41mm) to .020" (0,51mm) 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, except Styles J & K = 9 oz (2,50N) avg, 16 oz (4,45N) 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, except Styles J & K = 2.5 oz (0,69N) avg, 1.5 oz (0,42N) min

Lead-Free Solderable:
Wave, only

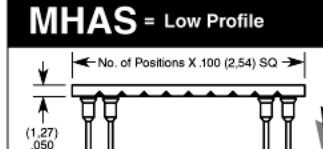
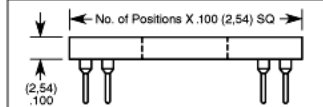
BODY STYLE	PIN COUNT	LEAD STYLE	PLATING OPTION	PIN OUT CODE	OPTION
<p>MPAS = Standard Polyester</p> <p>MVAS = Open Body Polyester</p> <p>MSAS = Hi-Temp LCP Open Body</p>	<p>— "XXX"</p> <p>= Total Number of Filled Positions</p>	<p>GG = 30µ" (0,76µm) Gold Contact, 10µ" (0,25µm) Gold Shell</p> <p>GT = 30µ" (0,76µm) Gold Contact, Tin Shell</p> <p>TT = Tin Contact and Shell (Styles -ZS & ZW Only)</p> <p>ST = 10µ" (5,08µm) Gold Contact, Tin Shell (Style -ZS only)</p>	<p>-2 = (9,14).360 Wire-Wrap (-ZW Only)</p> <p>-3 = (6,60).260 Wire-Wrap (-ZW Only)</p> <p>-L = Locking Socket (-ZS Only)</p>	<p>Requires GT Plating Option</p>	

ALSO AVAILABLE

RoHS compliant options. Call Samtec.

New! Ultra-LIF

1.5oz (0,42N) Max Insertion Force
45g (0,44N) Normal Force
Specify Style -ZU



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

SPECIFICATIONS

For complete specifications see www.samtec.com?MHAS

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



-ZS, -ZU, -ZA, -J, -K = Printed Circuit

Locking lead (-L) available. See OPTION.

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) .360
-J	(0,64) .025	(10,41) .410	(15,24) .600
-K	(0,89) .035	(12,95) .510	(17,86) .703

Insertion Depth = .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
Insertion Depth = .095" to .138", Style J Component Part No. = SC-1P3
Insertion Depth = .095" to .157", Style K Component Part No. = SC-2P1

-ZW = Wire-Wrap

MHAS NOT AVAILABLE Shorter w/w tail lengths available. See OPTION.

Insertion Depth = .125" to .157"
Style ZW Component Part No. = EZ-1W(1)
Style ZW-2 Component Part No. = EZ-1W(1(2))
Style ZW-3 Component Part No. = EZ-1W(1(3))

-ZE or -ZH = Elevated

LEAD STYLE	X DIA	W TAIL	Y	Z OAL
-ZE	(0,51) .020	(4,32) .170	(8,86) .349	(13,77) .542
-ZH	(0,46) .018	(3,81) .150	(12,95) .510	(17,86) .703

MHAS NOT AVAILABLE
Insertion Depth = .125" to .170", Style ZE Component Part No. = EZ-2P3
Insertion Depth = .125" to .145", Style ZH Component Part No. = EZ-2P2

SPECIFICATIONS

For complete specifications see www.samtec.com?MSAS

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



-ZL = Low Profile

Insertion Depth = .105" to .170"
Component No. = EZ-3P1

-ZM = Low Profile

MHAS & CHAS SERIES ONLY.

Insertion Depth = .080" to .105"
Component No. = EZ-4P1

-ZN or ZC = Micro Socket

MHAS & CHAS SERIES ONLY.

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	(4,19) .165

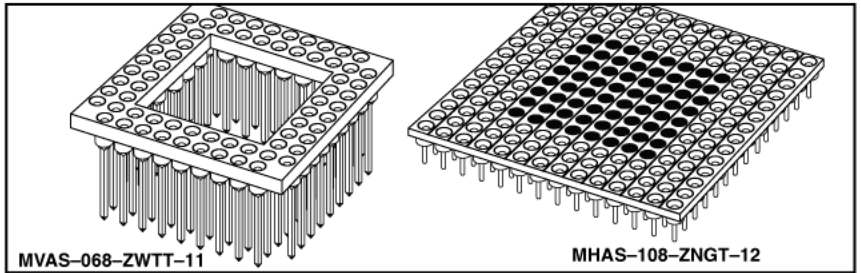
ZN Insertion Depth = .080" to .150"
ZN Component No. = EZ-5P1
ZC Insertion Depth = .080" to .140"
ZC Component No. = EZ-6P1

-ZP = Short Tail

ZP Insertion Depth = .125" to .145"
ZP Component No. = EZ-1M1

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

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

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

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