

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

SPECIFICATIONS

For complete specifications see www.samtec.com?MHAS

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



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



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

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.

-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) .350
-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(2)
Style ZW-3 Component Part No. = EZ-1W(3)

-ZE or -ZH = Elevated

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

-ZL = Low Profile

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

-ZM = Low Profile

MHAS & CHAS SERIES ONLY.

Insertion Depth = .090" to .105"
Component No. = EZ-4P1

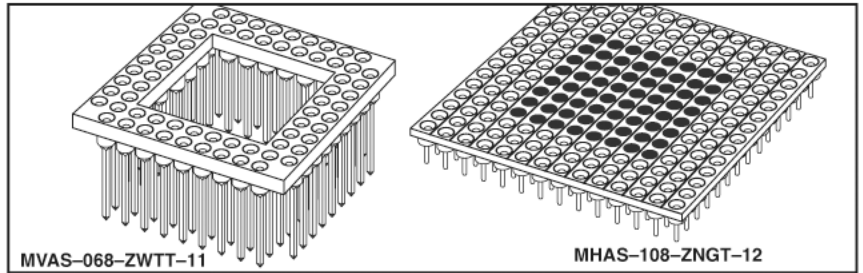
-ZN or ZC = Micro Socket

MHAS & CHAS SERIES ONLY.

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

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

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MVAS-068-ZWTT-11

MHAS-108-ZNGT-12

**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>-13=169 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>-13=088 Pins</p> <p>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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