

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 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: Brass 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" (0,53mm) DIA; ZN = .016" (0,41mm) to .020" (0,51mm) DIA

Insertion Force: 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: 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

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

SPECIFICATIONS

For complete specifications see www.samtec.com?MHAS

MHAS

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

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 200µ" (5,08µm) Tin Shell TT = 200µ" (5,08µm) Tin Contact and Shell (Styles -ZS & -ZW Only) ST = 10µ" (5,08µm) Gold Contact 200µ" (5,08µm) 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	

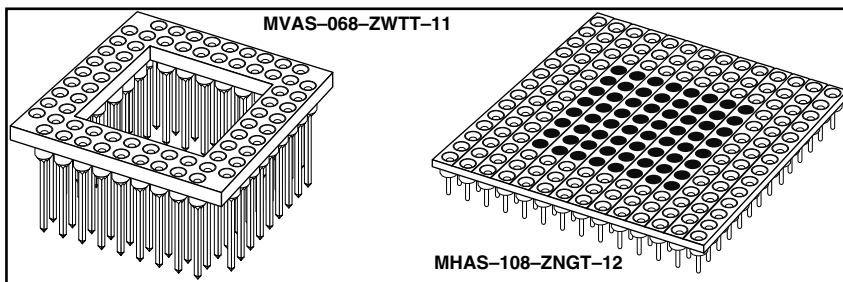
Note: Some sizes, styles and options are non-standard, non-returnable.

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																				
Locking lead (-L) available. See OPTION. <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> <tr> <td>-J</td> <td>(0,64) .025</td> <td>(10,41) .410</td> <td>(15,24) .600</td> </tr> <tr> <td>-K</td> <td>(0,89) .035</td> <td>(12,95) .510</td> <td>(17,86) .703</td> </tr> </tbody> </table> Insertion Depth = .095" to .145" Style ZS Component Part No. = EZ-1P1 Style ZU 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	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	MHAS NOT AVAILABLE Shorter w/w tail lengths available. See OPTION. Insertion Depth = .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)	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
LEAD STYLE	X DIA	Y TAIL	Z OAL																			
-ZS, -ZU	(0,51) .020	(3,18) .125	(7,62) .300																			
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-J	(0,64) .025	(10,41) .410	(15,24) .600																			
-K	(0,89) .035	(12,95) .510	(17,86) .703																			
-ZL = Low Profile	-ZM = Low Profile	-ZN or ZC = Micro Socket	-ZP or ZT = Short Tail																			
Insertion Depth = .105" to .170" Component No. = EZ-3P1	MHAS & CHAS SERIES ONLY. Insertion Depth = .080" to .105" Component No. = EZ-4P1	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-8P1	<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> ZP Insertion Depth = .125" to .145" ZP Component No. = EZ-1M1 ZT Insertion Depth = .080" to .105" ZT Component No. = EZ-1M2	LEAD STYLE	W HEAD	Z OAL	-ZP	(0,76) .030	(5,08) .200	-ZT	(0,51) .020	(4,24) .167										
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Due to technical progress, all designs, specifications and components are subject to change without notice.

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<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 not available.</p>	<p>-17 =168 Pins</p> <p>MSAS not available.</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>MSAS not available.</p>	<p>-13 =101 Pins</p> <p>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 =068 Pins</p> <p>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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