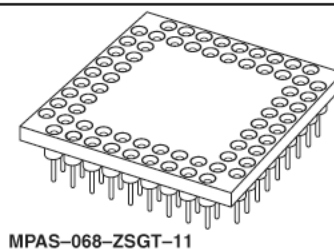
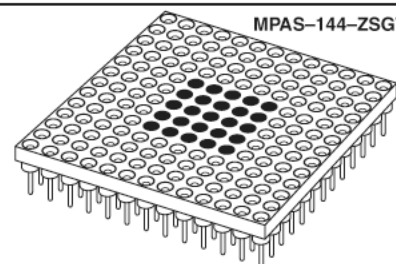


samtec



MPAS-068-ZSGT-11



MPAS-144-ZSGT-13

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

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

(0.97N) min, 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:

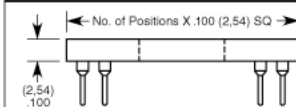
230°C for 30 to 60 seconds

BODY STYLE

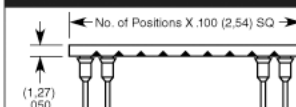
MPAS = Standard
Polyester

MVAS = Open
Body Polyester

MSAS = Hi-Temp LCP
Open Body



MHAS = Low Profile



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

PIN COUNT

— "XXX"
= Total Number
of Filled
Positions

LEAD STYLE

ALSO AVAILABLE

RoHS compliant
options.
Call Samtec.



PLATING OPTION

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)

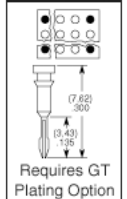
PIN OUT CODE

OPTION

—2
= (9,14).360
Wire-Wrap
(-ZW Only)

—3
= (6,60).260
Wire-Wrap
(-ZW Only)

—L
= Locking
Socket
(-ZS Only)

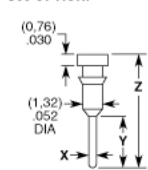


Requires GT
Plating Option

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

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

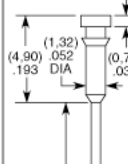
Option L Component Part No. = SC-1L1 or EZ-1L1

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

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

Styles J & K =
16 oz/in insertion
force

—ZW = Wire-Wrap



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

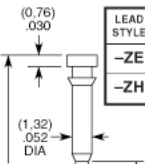
Insertion Depth
= .125" to .157"

Style ZW Component
Part No. = EZ-1W1(1)

Style ZW-2 Component
Part No. = EZ-1W1(2)

Style ZW-3 Component
Part No. = EZ-1W1(3)

—ZE or —ZH = Elevated



LEAD STYLE	X DIA	W TAIL	Y HEAD	Z OAL
—ZE	(0.51) .020	(4.32) .170	(8.86) .349	(13.77) .542
—ZH	(0.64) .018	(3.81) .150	(12.95) .510	(17.86) .703

MHAS NOT AVAILABLE

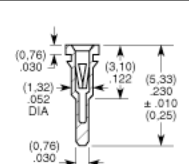
Insertion Depth
= .125" to .170"

Style ZE Component
Part No. = EZ-2P3

Insertion Depth
= .125" to .145"

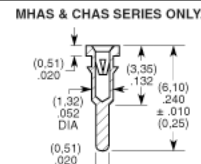
Style ZH Component
Part No. = EZ-2P2

—ZL = Low Profile



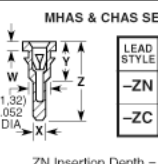
Insertion Depth = .105" to .170"
Component No. = EZ-3P1

—ZM = Low Profile



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

—ZN or ZC = Micro Socket



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

ZC Insertion Depth = .080" to .140"
ZC Component No. = EZ-8P1

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

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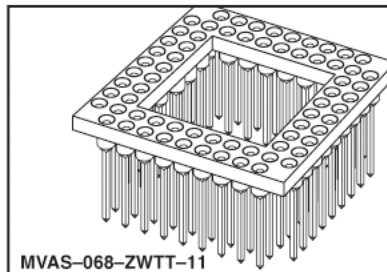
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SAMTEC INDIA • Tel: 91 80 306 21 612 • Fax: 91 80 4152 8187

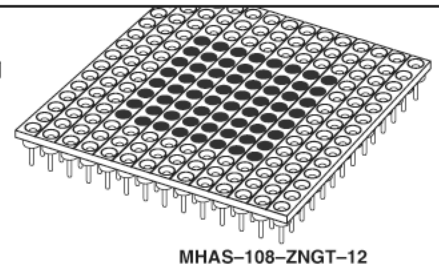
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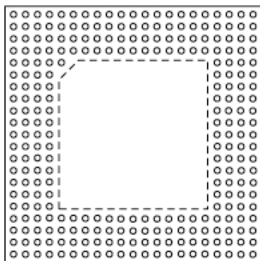


MVAS-068-ZWTT-11

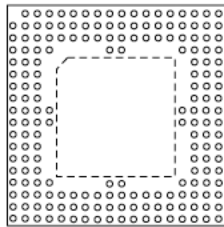


MHAS-108-ZNGT-12

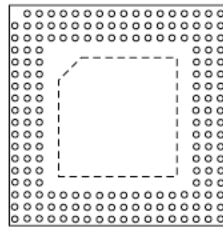
**MORE STANDARD PIN-OUTS AVAILABLE.
CALL SAMTEC.**

-21=273 Pins

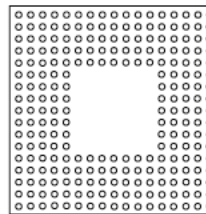
MSAS only.

-18=191 Pins

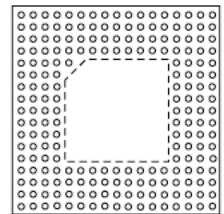
MSAS only.

-18=179 Pins

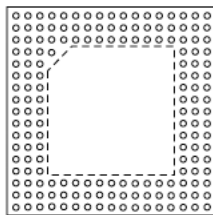
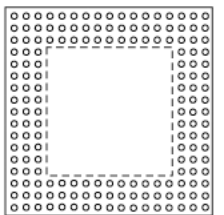
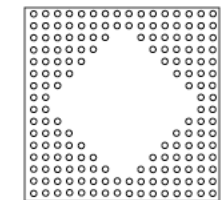
MSAS only.

-17=240 Pins

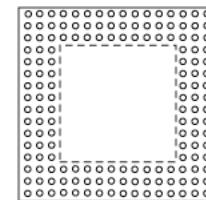
MVAS & MSAS not available.

-17=209 Pins

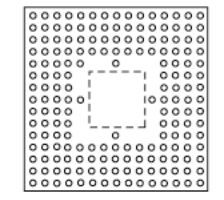
MSAS not available.

-17=169 Pins**-17=168 Pins****-16=172 Pins**

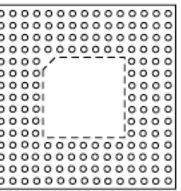
MVAS & MSAS not available.

-16=156 Pins

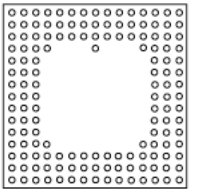
MSAS only.

-15=181 Pins

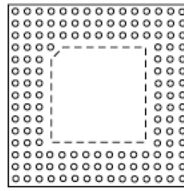
MVAS not available.

-15=176 Pins

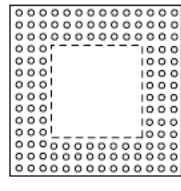
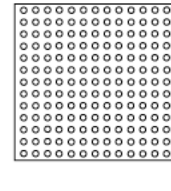
MSAS not available.

-15B=149 Pins

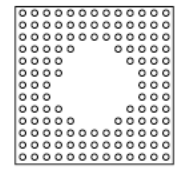
MVAS & MSAS not available.

-15=145 Pins

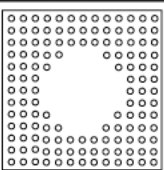
MVAS not available.

-14=132 Pins**-13=169 Pins**

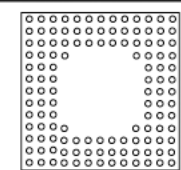
MVAS & MSAS not available.

-13A=133 Pins

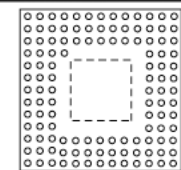
MVAS & MSAS not available.

-13B=132 Pins

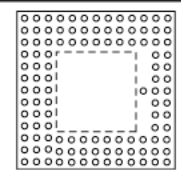
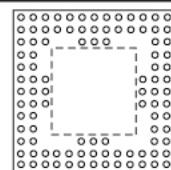
MVAS & MSAS not available.

-13A=124 Pins

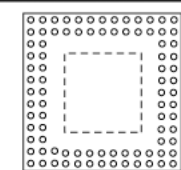
MVAS & MSAS not available.

-13A=121 Pins

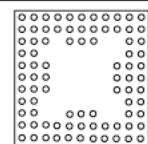
MSAS not available.

-13=114 Pins**-13=101 Pins**

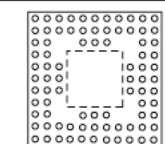
MVAS & MSAS not available.

-13=088 Pins

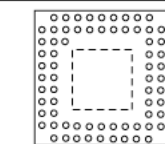
MSAS not available.

-11=085 Pins

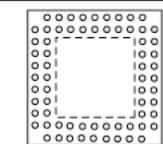
MVAS & MSAS not available.

-11C=084 Pins

MSAS not available.

-11=069 Pins

MSAS not available.

-11=068 Pins

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