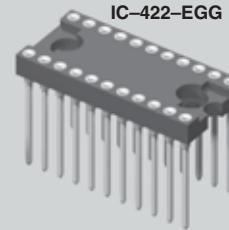




**MOLD-TO-POSITION  
PRODUCT**  
Minimums or set-up charges  
may apply. Call Samtec.

IC-308-SGT



# SCREW MOUNT DIP SOCKETS IC SERIES

**Mates with:**  
AP, APS, APO,  
APA, APH

## Highest reliability DIP sockets

IC series DIP sockets  
feature U.L. rated  
G.F. polyester body with  
mounting holes and use  
precision machined lead  
sockets for high reliability  
in the most demanding  
applications.

## SPECIFICATIONS

**Insulator Material:**  
Black Glass Filled  
Polyester



FILE NO. E111594

**Flammability Rating:**  
UL 94V-0

**Insulation Resistance:**  
5000 megohm @ 500 VDC

**Temperature Range:**  
-55°C to +125°C

**Withstanding Voltage:**  
1000 VRMS@60 Hz

**Contact:**

BeCu

**Shell:**

Brass except style K  
Phosphor Bronze

**Plating:**

Au over 50μ" Ni or Sn over  
100μ" Cu or 50μ" Ni

**Current Rating:**

1 amp continuous @  
100 VDC per contact

**Contact Resistance:**

10 milliohms @ 200 milliamp

**Socket Retention in Body:**

5 lbs against barb

**Lead Size Range:**

.015" to .022" DIA

and most IC leads

**Insertion Force:**

Standard = 9 oz avg, 16 oz  
max (.017" DIA probe); Low

Insertion Force = 2.5 oz avg,  
5.5 oz max (.018" DIA probe)

**Withdrawal Force:**

Standard = 2.5 oz avg, 1.5 oz  
min (after 12 insertions with  
.017" DIA probe); Low Insertion

Force = 2.0 oz avg, 0.35 oz min

(after 12 insertions with .018"

DIA probe)

**Note:**

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

**TYPE  
SOCKET**

**IC**  
= IC  
Socket

**ROW SPACING &  
NO. OF CONTACTS**

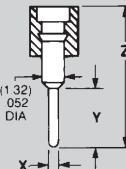
**-S\*, -A\*, or -J**

= Printed Circuit

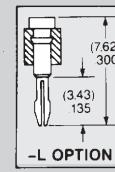
\* For LIF Specify -ZS or -ZA

LEAD STYLE	X DIA	Y TAIL	Z
-S or -ZS	(0.51) .020	(3.18) .125	(7.62) .300
-A or -ZA	(0.51) .020	(4.57) .180	(8.89) .350
-J	(0.64) .025	(10.41) .410	(15.24) .600

Locking lead  
(-L) available.  
See OPTION.



Style S, ZS, A, ZA & J Insertion Depth = .095" to .150"  
Style S Component Part No. = SC-1P1  
Style ZS Component Part No. = EZ-1P1  
Style A Component Part No. = SC-6P1  
Style ZA Component Part No. = EZ-6P1  
Style J Component Part No. = SC-1P3  
Option L Insertion Depth = .095" to .150"  
Option L Component Part No. = SC-1L1 or EZ-1L1



Low Insertion Force (LIF) Contacts Available.

**-306** = .300 Row / 6 Contacts

**-308** = .300 Row / 8 Contacts

**-310** = .300 Row / 10 Contacts

**-314** = .300 Row / 14 Contacts

**-316** = .300 Row / 16 Contacts

**-318** = .300 Row / 18 Contacts

**-320** = .300 Row / 20 Contacts

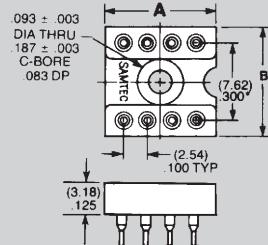
**-324** = .300 Row / 24 Contacts

**-422** = .400 Row / 22 Contacts

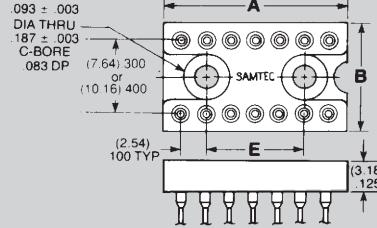
**-424** = .400 Row / 24 Contacts

Part No.	A Length	B Width
IC-306	(8.89) .350	(10.16) .400
IC-308	(11.43) .450	(10.16) .400
*IC-310	(13.97) .550	(10.16) .400

\* Mounting hole off center on 10 position.



Part No.	A Length	B Width	E Mnt Holes
IC-314	(17.78) .700	(10.16) .400	(10.16) .400
IC-316	(20.32) .800	(10.16) .400	(12.70) .500
IC-318	(22.86) .900	(10.16) .400	(15.24) .600
IC-320	(25.40) 1.000	(10.16) .400	(17.78) .700
IC-324	(30.48) 1.200	(10.16) .400	(22.86) .900
IC-422	(27.94) 1.100	(10.16) .400	(20.32) .800
IC-424	(30.48) 1.200	(12.70) .500	(22.86) .900



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

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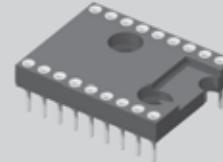
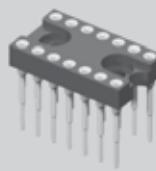
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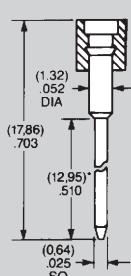
**MOLD-TO-POSITION  
PRODUCT**  
Minimums or set-up charges  
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IC-314-WGT

IC-618-SGT

**-W**  
= Wire-Wrap  
For LIF Specify -ZW



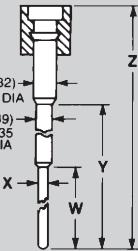
Shorter  
w/w tail  
lengths  
available.  
See  
OPTION.

Insertion Depth  
=.125" to .170"  
Style W Component  
Part No. = SC-1W1(1)  
Style ZW Component  
Part No. = EZ-1W1(1)  
Style W-2 Component  
Part No. = EZ-1W1(2)  
Style ZW-2 Component  
Part No. = SC-1W1(2)  
Style W-3 Component  
Part No. = SC-1W1(3)  
Style ZW-3 Component  
Part No. = EZ-1W1(3)

**-E**  
= Elevated  
For LIF Specify -ZE or -ZH

LEAD STYLE	X DIA	W TAIL	Y	Z
<b>-E or</b> <b>-ZE</b>	(0.51) .020	(4.32) .170	(8.86) .349	(13.77) .543
<b>-ZH</b>	(0.46) .018	(3.81) .150	(12.95) .510	(17.86) .703

Insertion Depth = .125" to .175"  
Style E Component Part No. = SC-2P3  
Style ZE Component Part No. = EZ-2P3  
Style ZH Component Part No. = EZ-2P3



### PLATING OPTION

**GG**  
= 30 $\mu$ " Gold Contact  
10 $\mu$ " Gold Shell

**GT**  
= 30 $\mu$ " Gold Contact  
Tin Shell

**TT**  
= Tin Contact  
and Shell  
(-S, -ZS, -W, -ZW,  
-A, -H only)

**ST**  
= 10 $\mu$ " Gold Contact  
Tin Shell  
(-S & -ZS only)

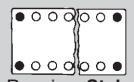
**OPTION**  
(Leave Blank for  
Standard Version)

**-2**  
= (9.14).360  
Wire-Wrap  
Tail

**-3**  
= (6.60).260  
Wire-Wrap  
Tail

**Wire-Wrap  
Option**  
Requires Style  
-W or -ZW

**Requires desired  
suffix for shorter  
Wire-Wrap tail.**



**-L**  
= Locking  
Socket

**Requires Style  
-S or -ZS and  
.035" ± .003"  
board hole.  
Requires GT  
plating option**

**-610** = .600 Row / 10 Contacts

**-614** = .600 Row / 14 Contacts

**-616** = .600 Row / 16 Contacts

**-618** = .600 Row / 18 Contacts

**-624** = .600 Row / 24 Contacts

**-628** = .600 Row / 28 Contacts

**-632** = .600 Row / 32 Contacts

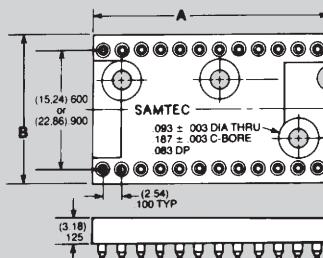
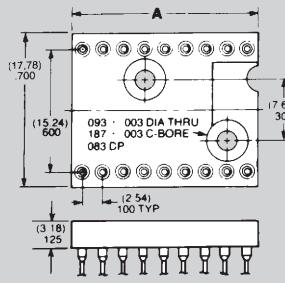
**-640** = .600 Row / 40 Contacts

**-940** = .900 Row / 40 Contacts

**-950** = .900 Row / 50 Contacts

**-964** = .900 Row / 64 Contacts

Part No.	A Length
IC-610	(12.70).500
IC-614	(17.78).700
IC-616	(20.32).800
IC-618	(22.86).900



Part No.	A Length	B Width
IC-624	(30.48) 1.200	(17.78) .700
IC-628	(35.56) 1.400	(17.78) .700
IC-632	(40.64) 1.600	(17.78) .700
IC-640	(50.80) 2.000	(17.78) .700
*IC-940	(63.50) 2.500	(26.27) 1.050
*IC-950	(63.50) 2.500	(26.27) 1.050
IC-964	(81.28) 3.200	

\*IC-940 and IC-950  
are non-standard  
non-returnable.

†Mounting hole off center on 50 positions

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