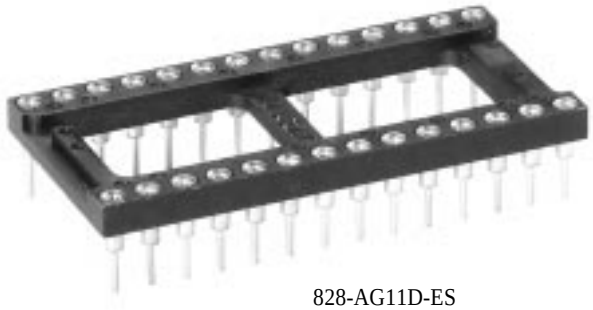
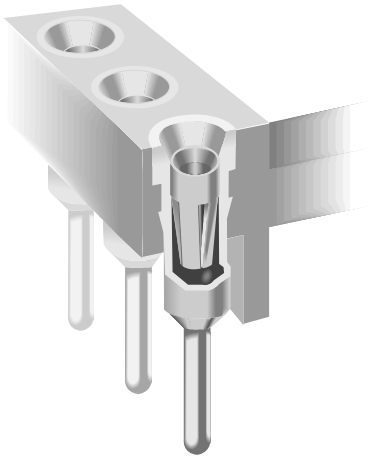
800 Series *Four-Fingered Contact Open Insulator DIP Sockets*

A



828-AG11D-ES



FEATURES:

The Augat 800 Series combines precision four-fingered inner contacts with an open ladder insulator to produce the ultimate high-reliability socket.

- Precision four-fingered inner contacts provide concentric funnel entry for easy flat and round lead insertion
- "X" & "Y" stackable. Open ladder for cooling, cleaning and inspection. Low profile
- Accommodates 8 through 64 pins DIPS, rectangular or round IC leads
- Non-wicking, closed bottom sleeve provides 100% protection against flux and solder contamination. Choice of solderless wrap or PC termination
- Recognized under the Component Program of Underwriter Laboratories, Inc. File No. E111362
- Beryllium copper inner contact for maximum mechanical and electrical performance
- Machined (Premium Series) and stamped (Economy Series) contacts are available
- For extreme conditions involving shock and vibration, Augat's high retention force contact is available

APPLICATION DIMENSIONS:

- PCB Thickness Range: Standard .062" and .092" (1,57 and 2,34)
- PCB Hole Size Range: .035" ± .002" (0,89 ± 0,05) PC tail,
  .055" ± .003" (1,40 ± 0,08) solderless wrap
- IC Pin Dimension Range: .009" x .015" (0,23 x 0,38) through
  .011" x .020" (0,28 x 0,51)
  .016" to .021" (0,41 to 0,53) round lead
  .105" (2,67) min. length

MATERIAL SPECIFICATIONS:

Insulator ..... Thermoplastic polyester, UL rated 94V-0
Sleeve ..... Machined brass
Contact ..... Beryllium copper
Sleeve Plating ..... Tin/lead or gold
Contact Plating ..... Premium or Economy Series (ES) - gold or tin/lead
Economy Series (ESL) - low gold

PERFORMANCE SPECIFICATIONS:

MECHANICAL

Vibration ..... Passed MIL-STD-1344, Method 2005.1, Condition II, 10 G's
Shock ..... Passed MIL-STD-1344, Method 2004.1, Condition C, 100 G's
Durability ..... Passed MIL-STD-1344, Method 2016
Normal Force ..... 125 Grams (4.4 oz.) average with .018" (0,46) dia. polished steel pin (Premium Series)
200 Grams (7.1 oz.) average with .018" (0,46) dia. polished steel pin (Economy Series)
Inner Contact Retention ..... 7.5 Lbs. per line average
Sleeve Retention in Plastic ..... 3.0 Lbs. per line minimum
Solderability ..... Passed MIL-STD-202F, Method 208
Insertion Force ..... Premium - 134 grams (4.7 oz.) average with a .018" (0,46) dia. polished steel pin
Economy - 179 grams (6.3 oz.) average with a .018" (0,46) dia. polished steel pin
Withdrawal Force (Premium and Economy) ..... 63 Grams (2.2 oz.) average with a .018" (0,46) dia. polished steel pin

ELECTRICAL

Contact Resistance ..... 10 Milliohms max.
Contact Rating ..... 3 Amps
Capacitance ..... 1 pF per MIL-STD-202, Method 305 (contact to contact)
Insulation Resistance .... 5,000 Megohms min. @ 500 VDC per MIL-STD-1344, Method 3003.1
Dielectric Withstanding Voltage ..... 1,000 Volts RMS per MIL-STD-1344, Method 3001.1

ENVIRONMENTAL

Humidity ..... Passed MIL-STD-1344, Method 1002.2, Cond. II
Thermal Shock ..... Passed MIL-STD-1344, Method 1003.1, Cond. A
Operation Temperature .. Gold inner contact -55°C to +125°C, Tin/lead inner contact -55°C to +105°C

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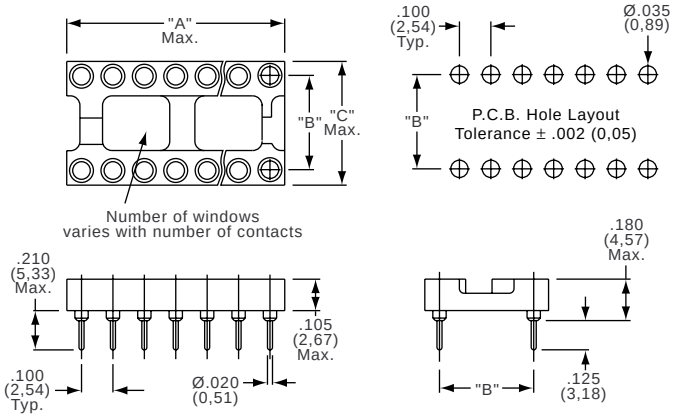
STANDARD CONFIGURATIONS

Number of Contacts	A	B*	C	Number of Contacts	A	B*	C
8	.400 (10,16)	.300 (7,62)	.400 (10,16)	24	1.200 (30,48)	.600 (15,24)	.700 (17,78)
14	.700 (17,78)			28	1.400 (35,56)		
16	.800 (20,32)			32	1.600 (40,64)		
18	.900 (22,86)			36	1.800 (45,72)		
20	1.000 (25,40)			40	2.000 (50,80)		
22	1.100 (27,94)	.400 (10,16)	.500 (12,70)	42	2.100 (53,34)		
24	1.200 (30,48)	.300 (7,62)	.400 (10,16)	48	2.400 (60,96)		
24		.400 (10,16)	.500 (12,70)	64	3.200 (81,28)	.900 (22,86)	1.000 (25,40)

* Dimension **B** ± .005 (0,13)



PART NUMBERS

Economy Series	Premium Series	Position	Centerline	Contact	Sleeve	Economy Series	Premium Series	Position	Centerline	Contact	Sleeve
808-AG10D-ES	808-AG10D	8	.300 (7,62)	Gold	Gold	824-AG10D-ES	824-AG10D	24	.600 (15,24)	Gold	Gold
808-AG10D-ESL		8		Low Gold	Gold	824-AG10D-ESL		24		Low Gold	Gold
808-AG11D-ES	808-AG11D	8		Gold	Tin/Lead	824-AG11D-ES	824-AG11D	24		Gold	Tin/Lead
808-AG11D-ESL		8		Low Gold	Tin/Lead	824-AG11D-ESL		24		Low Gold	Tin/Lead
808-AG12D-ES	808-AG12D	8		Tin/Lead	Tin/Lead	824-AG12D-ES	824-AG12D	24		Tin/Lead	Tin/Lead
814-AG10D-ES	814-AG10D	14	.300 (7,62)	Gold	Gold	828-AG10D-ES	828-AG10D	28	.600 (15,24)	Gold	Gold
814-AG10D-ESL		14		Low Gold	Gold	828-AG10D-ESL		28		Low Gold	Gold
814-AG11D-ES	814-AG11D	14		Gold	Tin/Lead	828-AG11D-ES	828-AG11D	28		Gold	Tin/Lead
814-AG11D-ESL		14		Low Gold	Tin/Lead	828-AG11D-ESL		28		Low Gold	Tin/Lead
814-AG12D-ES	814-AG12D	14		Tin/Lead	Tin/Lead	828-AG12D-ES	828-AG12D	28		Tin/Lead	Tin/Lead
816-AG10D-ES	816-AG10D	16	.300 (7,62)	Gold	Gold	832-AG10D-ES	832-AG10D	32	.600 (15,24)	Gold	Gold
816-AG10D-ESL		16		Low Gold	Gold	832-AG10D-ESL		32		Low Gold	Gold
816-AG11D-ES	816-AG11D	16		Gold	Tin/Lead	832-AG11D-ES	832-AG11D	32		Gold	Tin/Lead
816-AG11D-ESL		16		Low Gold	Tin/Lead	832-AG11D-ESL		32		Low Gold	Tin/Lead
816-AG12D-ES	816-AG12D	16		Tin/Lead	Tin/Lead	832-AG12D-ES	832-AG12D	32		Tin/Lead	Tin/Lead
818-AG10D-ES	818-AG10D	18	.300 (7,62)	Gold	Gold	836-AG10D-ES	836-AG10D	36	.600 (15,24)	Gold	Gold
818-AG10D-ESL		18		Low Gold	Gold	836-AG10D-ESL		36		Low Gold	Gold
818-AG11D-ES	818-AG11D	18		Gold	Tin/Lead	836-AG11D-ES	836-AG11D	36		Gold	Tin/Lead
818-AG11D-ESL		18		Low Gold	Tin/Lead	836-AG11D-ESL		36		Low Gold	Tin/Lead
818-AG12D-ES	818-AG12D	18		Tin/Lead	Tin/Lead	836-AG12D-ES	836-AG12D	36		Tin/Lead	Tin/Lead
820-AG10D-ES	820-AG10D	20	.300 (7,62)	Gold	Gold	840-AG10D-ES	840-AG10D	40	.600 (15,24)	Gold	Gold
820-AG10D-ESL		20		Low Gold	Gold	840-AG10D-ESL		40		Low Gold	Gold
820-AG11D-ES	820-AG11D	20		Gold	Tin/Lead	840-AG11D-ES	840-AG11D	40		Gold	Tin/Lead
820-AG11D-ESL		20		Low Gold	Tin/Lead	840-AG11D-ESL		40		Low Gold	Tin/Lead
820-AG12D-ES	820-AG12D	20		Tin/Lead	Tin/Lead	840-AG12D-ES	840-AG12D	40		Tin/Lead	Tin/Lead
822-AG10D-ES	822-AG10D	22	.400 (10,16)	Gold	Gold	842-AG10D-ES	842-AG10D	42	.600 (15,24)	Gold	Gold
822-AG10D-ESL		22		Low Gold	Gold	842-AG10D-ESL		42		Low Gold	Gold
822-AG11D-ES	822-AG11D	22		Gold	Tin/Lead	842-AG11D-ES	842-AG11D	42		Gold	Tin/Lead
822-AG11D-ESL		22		Low Gold	Tin/Lead	842-AG11D-ESL		42		Low Gold	Tin/Lead
822-AG12D-ES	822-AG12D	22		Tin/Lead	Tin/Lead	842-AG12D-ES	842-AG12D	42		Tin/Lead	Tin/Lead
824-AG30D-ES	824-AG30D	24	.300 (7,62)	Gold	Gold	848-AG10D-ES	848-AG10D	48	.600 (15,24)	Gold	Gold
824-AG30D-ESL		24		Low Gold	Gold	848-AG10D-ESL		48		Low Gold	Gold
824-AG31D-ES	824-AG31D	24		Gold	Tin/Lead	848-AG11D-ES	848-AG11D	48		Gold	Tin/Lead
824-AG31D-ESL		24		Low Gold	Tin/Lead	848-AG11D-ESL		48		Low Gold	Tin/Lead
824-AG32D-ES	824-AG32D	24		Tin/Lead	Tin/Lead	848-AG12D-ES	848-AG12D	48		Tin/Lead	Tin/Lead
824-AG65D-ES	824-AG65D	24	.400 (10,16)	Gold	Gold	864-AG10D-ES	864-AG10D	64	.900 (22,86)	Gold	Gold
824-AG65D-ESL		24		Low Gold	Gold	864-AG10D-ESL		64		Low Gold	Gold
824-AG66D-ES	824-AG66D	24		Gold	Tin/Lead	864-AG11D-ES	864-AG11D	64		Gold	Tin/Lead
824-AG66D-ESL		24		Low Gold	Tin/Lead	864-AG11D-ESL		64		Low Gold	Tin/Lead
824-AG14D-ES	824-AG14D	24		Tin/Lead	Tin/Lead	864-AG12D-ES	864-AG12D	64		Tin/Lead	Tin/Lead

Economy and Premium Series - .180" (4,57) PC Tail Pins

8XX-AG44D-XXX - Gold contact, tin/lead sleeve
8XX-AG45D-XXX - Gold contact, gold sleeve
8XX-AG43D-XXX - Tin/lead contact, tin/lead sleeve

High Retention Series

8XX-AG34D - Gold contact, tin/lead sleeve
8XX-AG33D - Gold contact, gold sleeve
8XX-AG38D - Tin/lead contact, tin/lead sleeve

Note: Part numbers in this chart and in detail shown refer to a .125" (3,18) PC Tail Pin

For wire-wrap sockets or 24 position on .300" (7,62) or .400" (10,16) in high retention or .180" (4,57) tails, please consult factory.

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