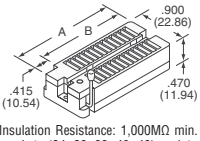
ARIES ELECTRONICS, INC.

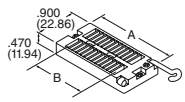
Universal Zero Insertion Force (ZIF) Test Sockets



Direct replacement for other test sockets currently on the market, with a number of significant advantages. **Features:** • .900" (22.86mm) overall height with contact level up • Available 24, 28, 32, 40, 48 pins in body of UL94V-0 rated polyphenylene sulfide • Contacts available tin plated (up to 105°C) or gold plated (up to 150°C) • Insulation Resistance: 1,000MΩ min. Dielectric withstanding voltage – 1,000VAC min. • Contact rating: 1A • All pin count sockets (24, 28, 32, 40, 48) go into PCBs with .600 (15.24) centers. • Sockets can be soldered into PC boards or plugged into any socket. • Contacts are normally closed to eliminate dependence on plastic to sustain contact.

No. of Pins	Contact Plating	Dimension - Inch (mm) A	Dimension - Inch (mm) B	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Aries Part No.
24	Tin	1.74 (44.20)	1.10 (27.94)	A300-ND	7.51	6.53	5.23	24-6554-10
	Gold	1.74 (44.20)	1.10 (27.94)	A301AE-ND	9.43	8.26	7.32	24-6554-11
28	Tin	1.94 (49.28)	1.30 (33.02)	A302-ND	7.45	6.52	5.78	28-6554-10
	Gold	1.94 (49.28)	1.30 (33.02)	A303-ND	8.69	7.96	7.16	28-6554-11
32	Tin	2.14 (54.37)	1.50 (38.10)	A304-ND	8.31	7.28	6.45	32-6554-10
	Gold	2.14 (54.37)	1.50 (38.10)	A305-ND	9.65	8.83	7.95	32-6554-11
40	Tin	2.54 (64.52)	1.90 (48.26)	A306-ND	9.93	8.69	7.70	40-6554-10
	Gold	2.54 (64.52)	1.90 (48.26)	A307-ND	11.50	10.53	9.48	40-6554-11
48	Tin	2.94 (74.68)	2.30 (58.42)	A308-ND	9.90	9.06	8.16	48-6554-10
	Gold	2.94 (74.68)	2.30 (58.42)	A309-ND	11.87	11.08	10.29	48-6554-11

Quick-Release Universal ZIF Test Socket

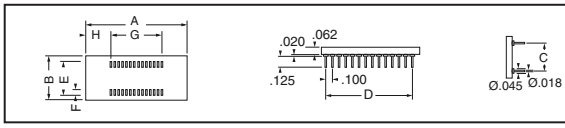


Features: • Aries' Universal Test Socket accepts devices on .300" (7.62mm) ~ .600" (15.24mm) centers • Sockets go into PCB .600" (15.24mm) centers • Swing quick-release handle down to open contacts and insert device. Release and handle automatically returns as contacts close onto device leads. **Specifications:** • **Socket Body:** Black UL94V-0 Glass-filled Polyphenylene Sulfide (PPS) • **Handle:** stainless steel • **Contact Current Rating:** 1 Amp • **Insulation Resistance:** 1,000MΩ minimum • **Life Cycle:** 25,000 ~ 50,000 cycles • **Operating Temperature:** 221°F (105°C) Tin plating; 302°F (150°C) Gold plating • **Retention Force (when closed):** • 55 grams/pin based on a .020" (.51mm) diameter test lead • Accepts leads .015" ~ .035" (.38mm ~ .89mm) wide, .100" ~ .280" (2.79mm ~ 7.11mm) long

No. of Pins	Description	Dimension - Inch (mm) A	Dimension - Inch (mm) B	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Aries Part No.
24	Tin Plated	1.79 (45.47)	1.10 (27.94)	A439-ND	7.88	6.90	6.11	24-6574-10
	Gold Plated	1.79 (45.47)	1.10 (27.94)	A440-ND	7.75	7.10	6.39	24-6574-11
28	Tin Plated	1.99 (50.55)	1.30 (33.02)	A441-ND	8.99	7.87	6.97	28-6574-10
	Gold Plated	1.99 (50.55)	1.30 (33.02)	A442-ND	10.51	9.61	8.66	28-6574-11
32	Tin Plated	2.19 (55.63)	1.50 (38.10)	A443-ND	10.13	8.87	7.85	32-6574-10
40	Tin Plated	2.59 (65.79)	1.90 (48.26)	A445-ND	10.19	9.32	8.39	40-6574-10
48	Gold Plated	2.99 (75.95)	2.30 (58.42)	A448-ND	14.34	13.39	12.43	48-6574-11

Surface Mount SOIC to DIP, SSOP to DIP, and SOJ to DIP Adapters

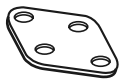
Specifications: • **Board:** .062" (1.57mm) thick, double-sided FR-4, with 1 oz. copper traces • **Pins:** Brass alloy 360, 1/2 hard • Plating: 200µ" (5.08 µm) minimum 93/7 tin/lead per MIL-T-10727 Type 1 over 100µ" (2.54µm) minimum nickel per QQ-N-290 • **Mounting: Suggested PCB hole:** .028" (.71mm) diameter



No. of Pins	Type	Dimensions - Inches A	B	C	D	E	F	G	H	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Aries Part No.
8	SOIC	.400	.460	.300	.300	.455	.155	.150	.121	A724-ND	5.11	4.13	3.35	08-350000-10
14	SOIC	.700	.450	.300	.600	.420	.138	.300	.180	A725-ND	5.11	4.13	3.35	14-350000-10
	SSOP	.700	.400	.300	.600	.340	.060	.154	—	A730-ND	13.30	12.41	11.53	14-351000-10
16	SOIC	.800	.450	.300	.700	.420	.138	.350	.180	A726-ND	5.11	4.13	3.35	16-350000-10
	SSOP	.800	.400	.300	.700	.340	.060	.179	—	A731-ND	13.30	12.41	11.53	16-351000-10
18	SOIC	.900	.450	.300	.800	.420	.138	.400	.180	A736-ND	7.22	5.83	4.72	18-350000-10
20	SOIC	1.000	.450	.300	.900	.420	.138	.450	.180	A727-ND	5.11	4.13	3.35	20-350000-10
	SSOP	1.000	.400	.300	.900	.340	.060	.230	—	A733-ND	13.30	12.41	11.53	20-351000-10
24	SOIC	1.200	.700	.600	1.100	.455	.150	.550	.180	A720-ND	6.56	5.74	5.09	24-650000-10
	SOIC	1.200	.450	.300	1.100	.420	.138	.550	.180	A322-ND	5.11	4.13	3.35	24-350000-10
28	SOIC	1.400	.700	.600	1.300	.450	.075	.650	.375	A320-ND	9.29	8.13	7.20	28-650000-10
	SOIC	1.400	.400	.300	1.300	.350	.090	.650	.375	A321-ND	5.91	5.18	4.59	28-350002-10
	SSOP	1.400	.400	.300	1.300	.340	.060	.333	—	A734-ND	13.30	12.41	11.53	28-351000-10
	SSOP	1.400	.700	.600	1.300	.340	.070	.333	—	A735-ND	18.44	17.21	15.99	28-651000-10
32	SOJ	1.600	.700	.600	1.500	.650	.200	.750	.425	A323-ND	9.76	8.55	7.57	32-650000-10
	SOJ	1.600	.530	.400	1.500	.500	.090	.750	.425	A324-ND	8.59	7.52	6.66	32-450001-10
RoHS Compliant														
8	SOIC	.400	.460	.300	.300	.455	.155	.150	.121	A744-ND	5.97	4.83	3.91	08-350000-11-RC
14	SOIC	.700	.450	.300	.600	.420	.138	.300	.180	A745-ND	5.97	4.83	3.91	14-350000-11-RC
	SSOP	.700	.400	.300	.600	.340	.060	.154	—	A746-ND	11.00	10.27	9.54	14-351000-11-RC
16	SOIC	.800	.450	.300	.700	.420	.138	.350	.180	A747-ND	5.97	4.83	3.91	16-350000-11-RC
	SSOP	.800	.400	.300	.700	.340	.060	.179	—	A748-ND	11.00	10.27	9.54	16-351000-11-RC
18	SOIC	.900	.450	.300	.800	.420	.138	.400	.180	A750-ND	5.97	4.83	3.91	18-350000-11-RC
20	SOIC	1.000	.450	.300	.900	.420	.138	.450	.180	A751-ND	5.97	4.83	3.91	20-350000-11-RC
	SSOP	1.000	.400	.300	.900	.340	.060	.230	—	A753-ND	11.00	10.27	9.54	20-351000-11-RC
24	SOIC	1.200	.700	.600	1.100	.455	.150	.550	.180	A754-ND	10.28	—	—	24-650000-11-RC
	SOIC	1.200	.450	.300	1.100	.420	.138	.550	.180	A755-ND	5.97	4.83	3.91	24-350000-11-RC
28	SOIC	1.400	.700	.600	1.300	.450	.075	.650	.375	A756-ND	7.56	7.06	6.56	28-650000-11-RC
	SOIC	1.400	.400	.300	1.300	.350	.090	.650	.375	A757-ND	8.05	7.05	6.24	28-350002-11-RC
	SSOP	1.400	.400	.300	1.300	.340	.060	.333	—	A758-ND	11.00	10.27	9.54	28-351000-11-RC
32	SOJ	1.600	.700	.600	1.500	.650	.200	.750	.425	A760-ND	18.14	16.94	15.73	32-650000-11-RC

KEYSTONE ELECTRONICS CORP. RoHS COMPLIANT ~ ISO 9001 CERTIFIED

MICA Insulators for Transistor Mounting



These precision stamped MICA Insulators provide good thermal conductivity (.009 watts per square inch per °C per inch in thickness). Excellent thermal resistance 1100°F (593°C). Dielectric constant of 7 at 1,000kHz. **Specifications:** .003" (.08mm) thick MICA ±.001" (±.03mm)

Fig. 1

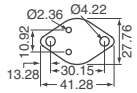


Fig. 2

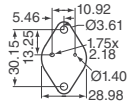


Fig. 3

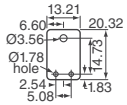


Fig. 4

"A" Dim. (Dia.)
4672K: 3.58mm
4673K: 2.92mm

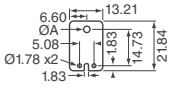


Fig.	Digi-Key Part No.	Pricing 10	100	500	1,000	Keystone Part No.
1	4651K-ND	1.11	9.72	32.79	44.61	4651
2	4662K-ND	1.21	10.44	34.35	48.80	4662
3	4671K-ND	1.17	9.72	32.80	23.65	4671
4	4672K-ND	1.02	9.73	32.80	18.30	4672
4	4673K-ND	1.02	9.73	32.80	18.30	4673

TO-3 Power Transistor Sockets

Fig. 1 – Chassis Mount
- Top Plate: Molded Nylon
- Base: Phenolic
- Dimensions: 1.53" x .073" (38.86mm x 1.85mm)
- Standoffs: 0.09" (2.29mm)

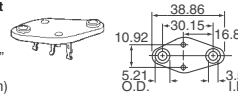


Fig. 2 – Chassis Mount
- Top Plate: Phenolic
- Base: Phenolic
- Dimensions: 1.35" x 1.00" (34.29mm x 25.40mm)
- Standoffs: None

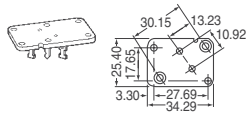
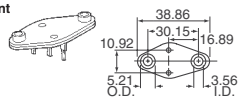


Fig. 3 – P.C. Board Mount
- Top Plate: Molded Nylon
- Base: Phenolic
- Dimensions: 1.53" x .073" (38.86mm x 1.85mm)
- Standoffs: 0.09" (2.29mm)



Transistor Mounting Hardware

Fig. 4 – TO-220: Complete Mounting Kit (one each of A, B, C, D, E)

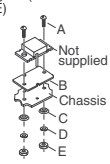
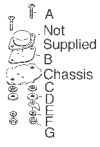


Fig. 5 – TO-3: Complete Mounting Kit (A*, B, C, D, E, F, G)



*** 6-20** Mounting Screws (A Only, 2 Required)

Fig.	Digi-Key Part No.	Price Each 1	10	100	Keystone Part No.
1	4601K-ND	2.12	2.00	1.92	4601
2	4606K-ND	1.81	1.70	1.49	4606
3	4600K-ND	1.90	1.79	1.62	4600
4	4724K-ND	1.81	1.68	1.49	4724
5	4725K-ND	1.81	1.68	1.49	4725
5	4706K-ND*	2.49/20	23.73/200		4706

molex

TO-220 Solder Tail Transistor Sockets

P.C. Board Mount:

.100" (2.54mm) center. These three circuit transistor sockets are pre-assembled and ready for soldering to a P.C. Board. The proven double cantilever design eliminates circuit failure due to thermal expansion and/or mechanical tolerances. Linear movement of the transistor leads in the socket does not affect contact reliability.

Material:

Tin-Plated Brass, 94V-2 Rated Nylon

Fig. 1

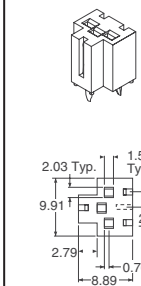


Fig. 2

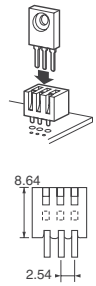


Fig.	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	WM2550-ND	1.35	1.20	.80	09-48-3031
2	WM2551-ND	1.76	1.56	1.04	10-18-2031