

AMP IC SOCKETS

SIMM Sockets — SIMM II, Full force, 0.050 (1.27) CL

Product Facts

- Direct insert allows for vertical insertion of module boards and allows extraction of module from middle without removing all other modules in front of it
- Pin 1 rib prevents misinsertion of the module board
- Polarizing posts provide proper orientation of the connector to the motherboard
- LIFT mechanism provides ease of extracting the module board
- High temperature housing withstands IR and VPR soldering methods
- Recognized under the Component Program of Underwriters Laboratories Inc., File E28476
- Certified by Canadian Standards Association File No. LR 7189

Description

The SIMM II Full Force Socket family offers an alternative to the cam-in approach. The full force design provides a direct insert alignment to the module board, allowing for a more rigid support of the modules throughout the length of the sockets. This is especially evident in the card guides at either end of the connector. These sockets are recommended for use with module boards that are slightly higher and more densely packed than the normal SIMM board.

Lift mechanisms are available in the right and left hand versions to aid in the extraction of the module boards. Polarizing posts on both ends of the socket provide proper orientation in the motherboard while a pin 1 rib prevents misinsertion of the module board in the socket.

Sockets are available with a choice of gold or tin plated contacts and high temperature housing material for processing in IR and VPR environments.

Performance Characteristics

Current Rating: 1 ampere max.

Termination Resistance

(Dry Circuit): 15 milliohms max.

Dielectric Withstanding

Voltage: 1 KVAC

Insulation Resistance: 10,000 megohms min. (initial)

Operating Temperature: -55°C to +105°C

Durability: 25 cycles min.

Contact Retention: 2 lb. [8.9N]

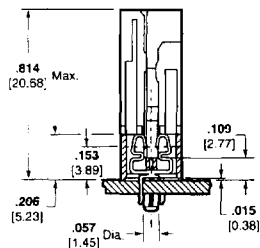
AMP SIMM SOCKETS — SIMM II, Full Force

Single Row

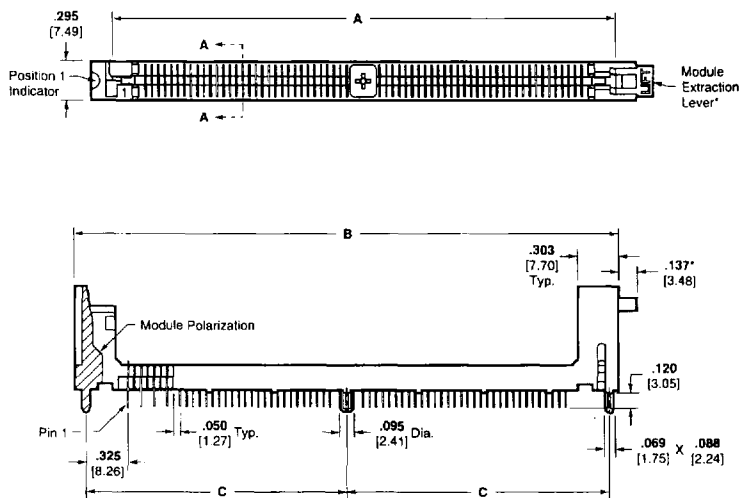
Material and Finish

Housing — Liquid Crystal Polymer (LCP) UL 94V-0

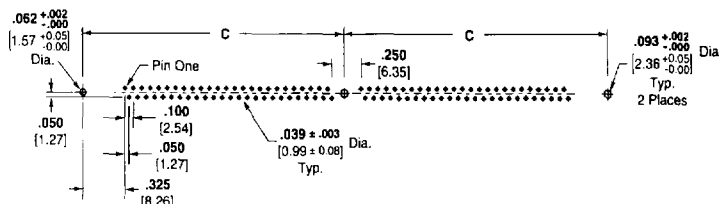
Contacts — Phosphor bronze with gold or tin plating.



Section A-A



***Note:** Right hand module extraction version is shown for purposes of illustration. See table below for other versions available. Extractor dimensions are the same for both left and right versions.



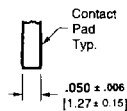
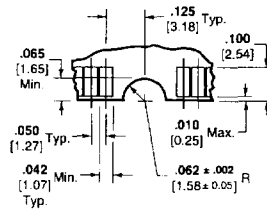
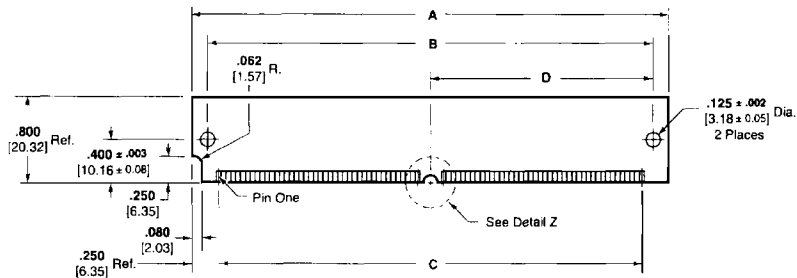
Recommended PC Board Hole Pattern

No. of Pos.	Dimensions in In. (mm)			Extraction Lever Position			
				None Gold Plate	Right Tin Plate	Right Gold Plate	Left Tin Plate
64	3.860 (98.04)	4.150 (105.41)	2.000 (50.80)	—	6-382555-4	6-382531-4	6-382574-4
64	38.60 (98.04)	4.150 (105.41)	2.000 (50.80)	—	6-382556-4 ⁽¹⁾	—	—
72	4.260 (108.20)	4.550 (115.57)	2.200 (55.88)	—	7-382555-2	7-382531-2	7-382574-2
72	4.260 (108.20)	4.550 (115.57)	2.200 (55.88)	—	7-382556-2 ⁽¹⁾	—	—
80	4.660 (118.36)	4.950 (125.73)	2.400 (60.96)	8-382683-0	—	8-382531-0	—
100	5.660 (143.76)	5.950 (151.13)	2.900 (73.66)	—	—	382531-1	—

¹ Tube loaded. Note: See page 52 for module layout.

AMP SIMM SOCKETS — SIMM II, Full Force (continued)

Recommended Module Layout



Detail Z

No. of Pos.	Dimensions in In. (mm)			
	A	B	C	D
64	3.850 (97.79)	3.584 (91.03)	3.350 (85.09)	1.792 (45.52)
68	4.050 (102.87)	3.784 (96.11)	3.550 (90.17)	1.892 (48.06)
72	4.250 (107.95)	3.984 (101.19)	3.750 (95.25)	1.992 (50.60)
80	4.650 (118.11)	4.384 (111.35)	4.150 (105.41)	2.192 (55.68)
100	5.650 (143.51)	5.384 (136.75)	5.150 (130.81)	2.692 (68.38)

AMP IC SOCKETS

SIMM Sockets — Dual Read-Out (DIMM)

Product Facts

- Increased lead-in geometry to reduce insertion force
- Built-in module extraction feature
- Module stabilization features
- Gold-gold contact system
- 0.050 x 0.075 [1.27 x 1.91] hole pattern
- Cleaning channels and slots
- Sizes up to 100 positions
- Single and dual housings available
- Accepts modules from 0.600 [15.24] up to 2.000 [50.8] high
- 0.300 [7.62] module centers (row-to-row spacing)
- 0.600 [15.24] housing centers for dual housing systems
- Accepts 0.050 ±0.004 [1.27 ±0.01] thick modules
- Full force wipe with insertion of module
- Socket polarized to accept module orientation
- Automatic insertion capability
- Socket-to-board hold-down features
- Recognized under the Component Program of Underwriters Laboratories Inc., File E28476
- Certified by Canadian Standards Association File LR 7189

Description

AMP Dual Read out SIMM Sockets provide twice the density of standard SIMM sockets while staying within present-day 0.050 [1.27] centerline technology. In other words, the resultant pin I/O count is the same as if we were able to use 0.025 [0.64] centerline spacing. The sockets have been designed to provide highly reliable, low cost, space saving benefits for interfacing between a hybrid board and PC board.

Available in 52- through 100-position sizes, socket housings feature a built-in extractor for easy removal of socketed module boards and increased lead-in geometry for reduced insertion force. A gold-gold contact system with full force wiping upon module insertion guarantees excellent electrical properties and long life.

Performance Characteristics

Current Rating:	1 ampere max.
Termination Resistance	
(Dry Circuit):	20 milliohms max. (initial)
Dielectric Withstanding	
Voltage:	1.0 KVAC
Insulation Resistance:	10,000 megohms min. (initial)
Capacitance:	1.0 picofarad max.
Operating Temperature:	-55°C to +105°C
Durability:	25 cycles min.
Contact Engaging Force:	4 oz. [1.112 N] max. per contact (initial)
Contact Separating Force:	1.5 oz. [0.417 N] min. per contact (final)

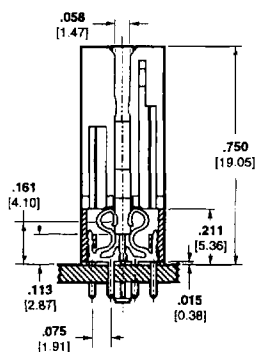
AMP SIMM SOCKETS — Dual-Read-Out (DIMM), 0.50 [1.27] CL

Single Row

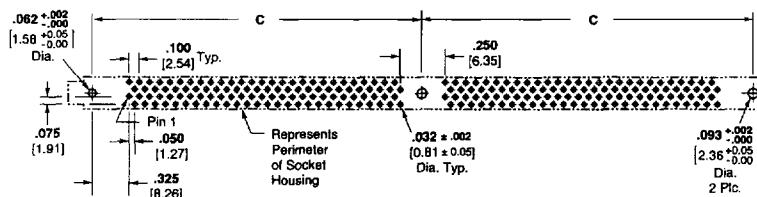
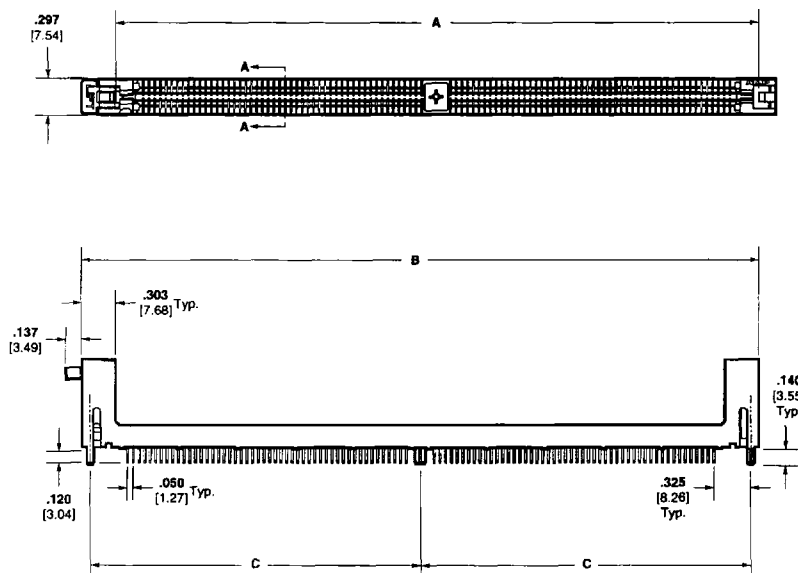
Material and Finish

Housing — Liquid Crystal Polymer (LCP) UL 94V-0

Contacts — Phosphor bronze with gold plating in contact area and tin-lead on solder tail.



Section A-A



No. of Pos.	Dimensions in In. (mm)			Extractor			
	A	B	C	Left	No Center Key Extractor Left/Right	No Extractors	0.062 [1.57] Center Key Extractor Left
52	3.260 (82.80)	3.550 (40.17)	1.700 (43.18)	5-382617-2	5-382781-2	5-382784-2	5-382759-2
64	3.860 (98.04)	4.150 (105.41)	2.000 (50.80)	6-382617-4	6-382781-4	6-382784-4	6-382759-4
68	4.060 (103.12)	4.350 (110.49)	2.100 (53.34)	6-382617-8	6-382781-8	6-382784-8	6-382759-8
72	4.260 (108.20)	4.550 (115.57)	2.200 (55.88)	7-382617-2	7-382781-2	7-382784-2	7-382759-2
80	4.660 (118.36)	4.950 (125.73)	2.400 (60.95)	8-382617-0	8-382781-0	8-382784-0	8-382759-0
100	5.660 (143.76)	5.950 (151.13)	2.900 (73.66)	382617-1	382781-1	382784-1	382759-1

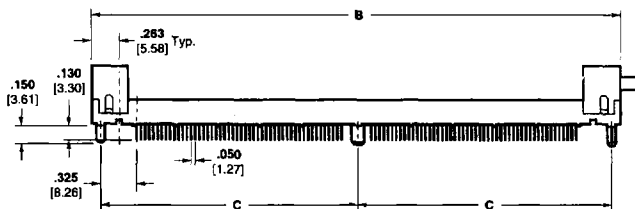
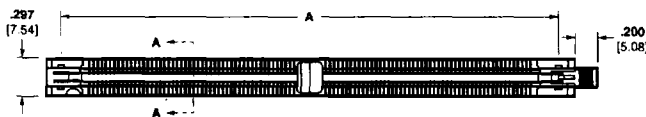
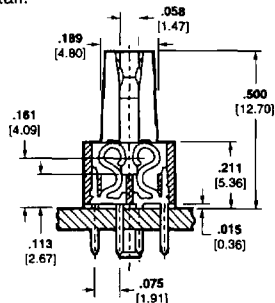
AMP SIMM SOCKETS — Dual-Read-Out (DIMM), 0.50 [1.27] CL (continued)

Single Row

Material and Finish

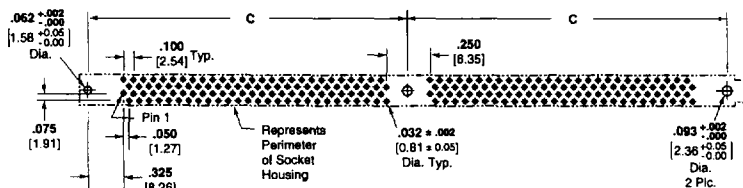
Housing — Liquid Crystal Polymer (LCP) UL 94V-0

Contacts — Phosphor bronze with gold plating in contact area and tin-lead on solder tail.



Note: 2 mm left center keyed version is shown for purposes of illustration. See table below for other versions available.

Section A-A

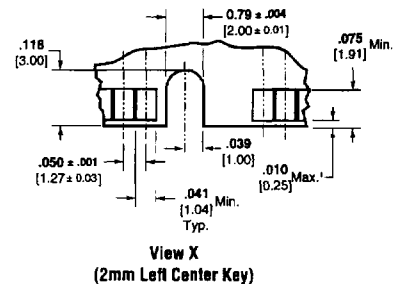


No. of Pos.	Dimensions in In. (mm)			No Key	Keying	
	A	B	C		0.062 [1.57] Center	2 mm Left Center
52	3.260 (82.80)	3.550 (90.17)	1.700 (43.18)	5-382762-2	5-382790-2	5-382765-2
56	3.460 (87.88)	3.750 (95.25)	1.800 (45.72)	—	—	5-382765-6
64	3.860 (98.04)	4.150 (105.41)	2.000 (50.80)	6-382762-4	6-382790-4	6-382765-4
68	4.060 (103.12)	4.350 (110.49)	2.100 (53.34)	6-382762-8	6-382790-8	6-382765-8
72	4.260 (108.20)	4.550 (115.57)	2.200 (55.88)	7-382762-2	7-382790-2	7-382765-2
80	4.660 (118.36)	4.950 (125.73)	2.400 (60.95)	8-382762-0	8-382790-0	8-382765-0
100	5.660 (143.30)	5.950 (151.13)	2.900 (73.66)	382762-1	382790-1	382765-1

Note:

Technical drawing of a shaft assembly. The drawing includes the following dimensions and features:

- Overall Length:** Dimensioned as **A** and **B**.
- Left End Features:**
 - Overall diameter: **.800** [20.32]
 - Reference point: **Ref.**
 - Step diameter: **.400 ± .003** [10.16 ± 0.08]
 - Step diameter: **.250** [6.35]
 - Step diameter: **.080** [2.03]
 - Step diameter: **.250** [6.35]
- Pin One:** A feature on the left end, indicated by a leader line.
- Central Feature:** A feature in the center, indicated by a leader line and the text **See View X**.
- Right End Features:**
 - Overall diameter: **.125 ± .002** [3.18 ± 0.05]
 - Material: **Dia. 2 Plc.**
 - Step diameter: **.096** [2.49]
- Other Dimensions:**
 - Radius: **.062** [1.58] **R.**
 - Overall length: **C**

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