

The Accutek AK682048D high density memory module is a static random access memory organized in 2 Meg x 8 bit words. The assembly consists of one medium speed 2 Meg x 8 SRAM in a Type 1 TSOP package. The module is supplied in a 600 mil wide, 36 pin DIP (Dual In-Line Package) configuration. This pinout is completely compatible with industry standard monolithic designs. These modules are intended for use in applications where limited board space dictates compact module designs.

The operation of the AK682048D is identical to standard monolithic 8 bit word wide SRAMs.

The AK682048D offers the features of low power and medium speed by using CMOS devices and makes high density mounting possible with no surface mount technology.

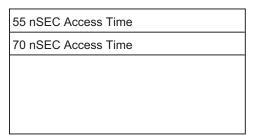
FEATURES

- 2,097,152 x 8 bit organization
- · Fast access time: 45 70 nSEC
- · Completely static RAM, no clock or timing strobe required
- · Inputs and outputs TTL compatible
- Conventional 600 mil wide SIP package with industry compatible pinout
- Single 5 volt power supply AK682048D
- Single 3.3 volt power supply AK682048D/3.3
- Operating free air temperature 0⁰ to 70⁰C

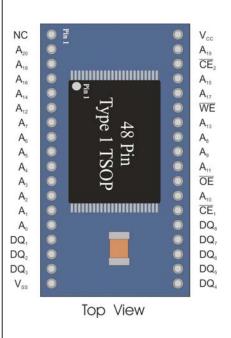
PIN NOMENCLATURE

DQ1 - DQ8	Data In/Data Out			
A ₀ - A ₂₀	Adress Inputs			
CE1	Chip Enable 1			
CE2	Chip Enable 2			
WE	Write Enable			
Vcc	5v Supply			
Vss	Ground			
ŌĒ	Output Enable			

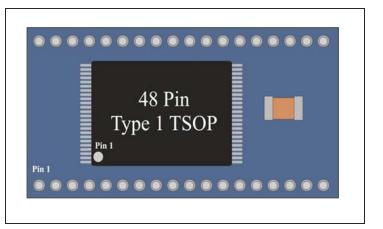
TIMING OPTIONS



PIN ASSIGNMENT



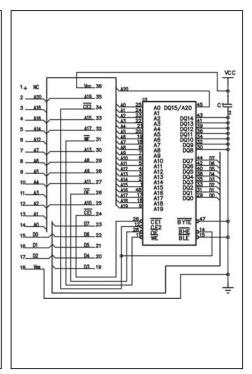
AK682048D 2,097,152 x 8 Bit CMOS Static Random Access Memory



ELECTRICAL SPECIFICATIONS

Timing diagrams and basic electrical characteristics are those of the standard 2048 Meg x 8 SRAMs used to construct these modules. Accutek's module design allows the flexibility of selecting industry-compatible 2048 Meg x 8 SRAMs from any of a number of semiconductor manufacturers.

FUNCTIONAL DIAGRAM



	ART NUMBER CODING INTERF	1	3	FI 4	<u> </u>	7	8	Inches
1	Product							
2	AK = Accutek Memory							
2	Type 4 = Dynamic RAM 5 = CMOS Dynamic RAM 6 = Static RAM							
3	Organization/Word Width 1 = by 1 16 = by 16 4 = by 4 32 = by 32 8 = by 8 36 = by 36 9 = by 9							T T
4	Size/Bits Depth 32 = 32K 1024 = 1 MEG 64 = 64K 4096 = 4 MEG 128 = 128K 8192 = 8 MEG 256 = 256K 16384 = 16 MEG 512 = 512K							
5	Package Type							l l
	G = Single In-Line Package (SIP) S = Single In-Line Module (SIM) D = Dual In-Line Package (DIP) W = .050 inch Pitch Edge Connect Z = Zig-Zag In-Line Package (ZIP)							LLLL.
6	Special Designation P = Page Mode N = Nibble Mode K = Static Column Mode W = Write Per Bit Mode V = Video Ram							
7	Separator							
	 Commercial 0⁰C to +70⁰C M = Military Equivalent Screened (-55⁰C to +125⁰C) I = Industrial Temperature Tested (-45⁰C to +85⁰C) X = Burned In 							
8	Speed (first two significant digits) DRAMS SRAMS $50 = 50 \text{ nS}$ $8 = 8 \text{ nS}$ $60 = 60 \text{ nS}$ $12 = 12 \text{ nS}$ $70 = 70 \text{ nS}$ $55 = 55 \text{ nS}$ $80 = 80 \text{ nS}$ $70 = 70 \text{ nS}$							

The numbers and coding on this page do not include all variations available but are show as examples of the most widely used variations. Contact Accutek if other information is required.

EXAMPLES:

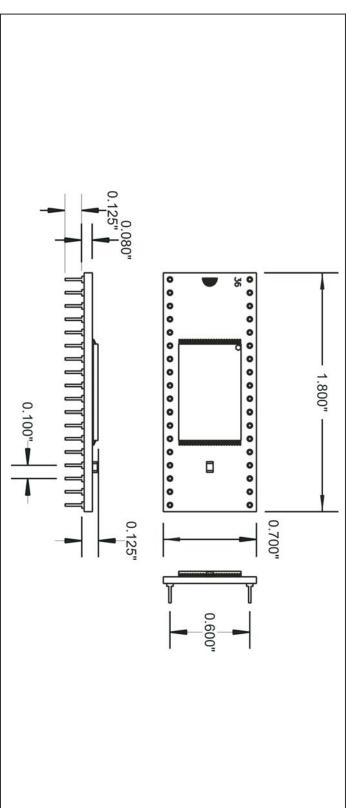
AK682048D-70

2048 x 8, 70 nSEC SRAM Module, DIP Configuration



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DIMENSIONS



Accutek reserves the right to make changes in specifications at any time and without notice. Accutek does not assume any responsibility for the use of any circuitry described; no circuit patent licenses are implied. Preliminary data sheets contain minimum and maximum limits based upon design objectives, which are subject to change upon full characterization over the specific operating conditions.