



# ACE93C46AL

## Serial EEPROM

### Description

The ACE93C46AL (1 Kbit) is Electrically Erasable Programmable Memory (EEPROM) devices accessed through the MICROWIRE™ bus protocol. The memory array can be configured either in bytes (x8b) or in words (x16b). The device is optimized for use in many industrial and commercial applications where low-power and low-voltage operation are essential.

### Features

- Industry standard MICROWIRE™ bus
- Low-Voltage Operation:  
VCC = 1.7V to 5.5V
- Dual Organization:  
by word (x16) or byte (x8)
- Programming instructions  
byte, word or entire memory
- Sequential Read Operation
- 2 MHz Clock Rate (5V)
- Self-Timed Write Cycle within 3ms Maximum
- High Reliability:  
Endurance: 4,000,000 write cycles  
Data retention: 100 years
- 8-lead SOP/TSSOP/SSOP/UDFN packages

### Absolute Maximum Stress Ratings

Parameter	Min.	Max.	Unit
Ambient operating temperature	-40	130	°C
Storage Temperature	-65	150	°C
DC Supply Voltage	-0.5	6.5	°C
Input / Output Voltage	-0.5	V <sub>CC</sub> + 1.0	V
Electrostatic pulse (HBM)		4000	V
Electrostatic pulse (MM)		250	V
Electrostatic pulse (CDM)		2000	V

Note:

Stresses above those listed under "Absolute Maximum Ratings" may cause permanent damage to this device. These are stress ratings only. Functional operation of this device at these or any other conditions above those indicated in the operational sections of this specification is not implied or intended. Exposure to the absolute maximum rating conditions for extended periods may affect device reliability.

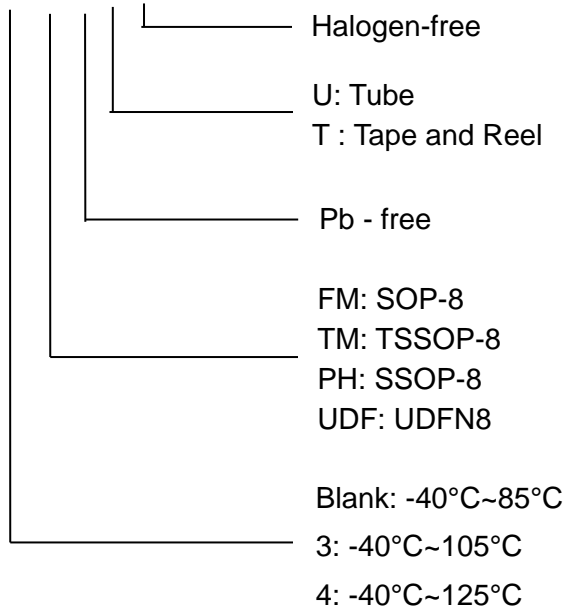


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### Ordering information

ACE93C46AL X XX + X H





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### Notes

ACE does not assume any responsibility for use as critical components in life support devices or systems without the express written approval of the president and general counsel of ACE Technology Co., LTD. As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury to the user.
2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.