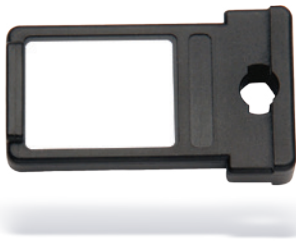


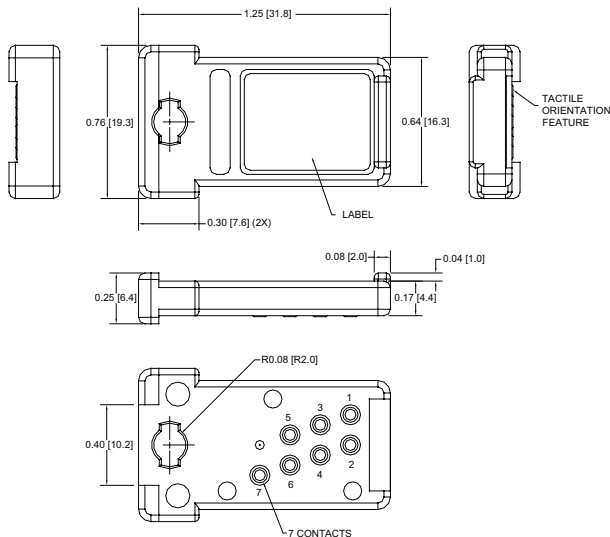
LCB Series

Serial Memory Bar Tokens

The LCB series of Bar memory tokens contain 1 Kb to 16 Kb non-volatile, serial Microwire EEPROM memory¹. The memory is solid over-molded using a rugged composite that protects the embedded memory and is resistant to environmental influences such as vibration, ice, dirt, moisture, chemicals, and electrostatic discharge. Each token features a writable label⁴ and is small enough to be carried in a pocket or to be placed on a keychain or lanyard. The LCB token is an ideal credential or low-capacity data transfer solution for harsh environment applications.



For pin-out information, refer to the datasheet for the Bar series of receptacles.



Drawing dimensions are in inches and millimeters [mm]. Dimensions are nominal and subject to manufacturer's tolerances.

- 1: Complete Microwire interface specification available at: www.datakey.com.
- 2: See Bar receptacle datasheet for mechanical and environmental specifications when mated.
- 3: "x" indicates optional color number. Contact ATEK for available color options. "A" suffix on part number indicates RoHS compliance.
- 4: Label compatible with ball point pen (non-erasable), pencil (erasable) and grease pencil (erasable).
- 5: It is recommended that all new key/token implementations be designed to operate with power supplies in the range of 2.7 to 3.6 volts. Although there are no immediate difficulties in procuring memory devices that operate in the 4.5 to 5.5 volt range, future availability may be impacted as semiconductor manufacturers shrink their die geometries.
- 6: The Bulk Erase command is not supported at < 4.6V.

| MECHANICAL ² | |
|-----------------------------------|---|
| Color* | Black Body with White Label ⁴ |
| Weight | 3.6 g (0.13 oz), Typical |
| Contact Life | 15,000 Insertion/Removal Cycles Min. |
| Drop Test | Multiple 10-ft Drops to Concrete |
| ELECTRICAL ¹ | |
| Power, Active | 25 mW, Typical at 5 V |
| Power, Standby | 200 μW, Typical at 5 V |
| Voltage | 2.7 V to 5.5 V (3.3 V recommended) ^{5,6} |
| ESD Protection | 15 kV (air discharge) EN 61000-4-2 |
| | EMI Reduction Circuitry On-board |
| ENVIRONMENTAL ² | |
| Storage Temperature | -40°C to +100°C |
| Operating Temperature | -40°C to +85°C |
| Relative Humidity | 0% to 95% (non-condensing) |
| Immersion | MIL-STD-810F, Method 512.4 Proc. I |
| Salt-Fog | MIL-STD-810F, Method 509.4 Proc. I |
| Freezing Rain | MIL-STD-810F, Method 521.2 Proc. I; Glaze Ice |
| Altitude | ≤ 40,000 ft (12,192 m) |
| Solar Radiation | MIL-STD-810F, Method 505.4, Proc. II |
| Other | Contact ATEK for Further Information on Additional Qualification Tests (including thermal shock, fungus, & chemical resistance) |
| MEMORY ¹ | |
| Capacity | 1 Kb (1024 bits), 4 Kb (4,096 bits), 16 Kb (16,384 bits) |
| Read Cycles | Unlimited |
| Write/Erase Cycles | 1,000,000 Minimum |
| Data Life (Storage) | 20 Years Minimum |
| MATING COMPONENTS ³ | |
| Bar Receptacle BRLG, BRLN | 606-0068-000A, 606-0068-001A |
| Bar Receptacle BRSG, BRSN | 606-0069-000A, 606-0069-001A |
| Programmer | 669-0120-000A |
| ORDERING INFORMATION ³ | |
| LCB1Kb | 611-0192-00xA |
| LCB4Kb | 611-0193-00xA |
| LCB16Kb | 611-0194-00xA |

* Contact ATEK for additional token and label color options

NOTES:
Conforms with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.



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View the full product line at www.datakey.com

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