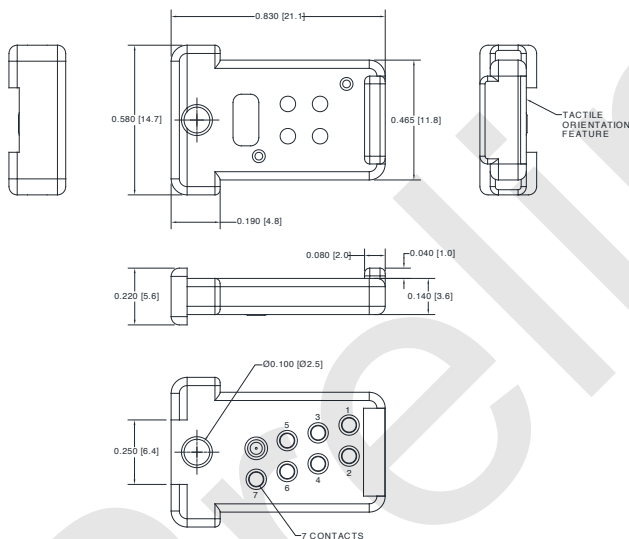


# ISJ Series

## Serial Memory Mini-Bar Tokens



The ISJ series of Mini-Bar memory tokens contain 16Kb or 256Kb of non-volatile, serial I<sup>2</sup>C EEPROM memory<sup>1</sup>. 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 contains a hole so it can be attached to a keychain or a lanyard. The ISJ token is an ideal credential or low-capacity data transfer solution for small hand-held mobile devices operating in harsh environments.



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

NOTES:  
Conforms with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011, and as amended by Directive 2015/863/EU, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.



### MECHANICAL<sup>2,5</sup>

Color*	Black (-000A), Red (-002A), Gray (-008A)
Weight	1.4 grams
Contact Life	15,000 Insertion/Removal Cycles Min.
Drop Test	Multiple 10-ft Drops to Concrete

### ELECTRICAL

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) <sup>4</sup>
ESD Protection	15 kV (air discharge) EN 61000-4-2

### ENVIRONMENTAL<sup>2,5</sup>

Storage Temperature	-40°C to +100°C
Operating Temperature	-40°C to +85°C
Relative Humidity	5% - 95% (non-condensing)
Immersion	MIL-STD-810H, Method 512.6, Proc. I
Salt-Fog	MIL-STD-810H, Method 509.8, Proc. I
Freezing Rain	MIL-STD-810H, Method 521.4, Glaze Ice
Altitude	MIL-STD-810H, Method 500.6, Proc. I & II ≤40,000 ft (12,192 m)
Solar Radiation	MIL-STD-810H, Method 505.7, Proc II
Other	Contact ATEK for Further Information on Additional Qualification Tests (including thermal shock, fungus & chemical resistance).

### MEMORY

Capacity	16Kb (16,384 bits) 256Kb (262,144 bits)
Read Cycles	Unlimited
Write/Erase Cycles	1,000,000 Minimum
Data Life (Storage)	20 Years Minimum

### MATING COMPONENT(S)

Mini-Bar Receptacle with Header	MBRHG: 606-0080-000A MBRHN: 606-0080-001A
Mini-Bar Receptacle with Flat Targets	MBRFG: 606-0081-000A MBRFN: 606-0081-001A
Programmer	Mini-BarLink III (coming soon)

### ORDERING INFORMATION<sup>3</sup>

ISJ16Kb	611-0243-00xA
ISJ256Kb	611-0244-00xA

- 1: I<sup>2</sup>C EEPROM Interface Specification available at [datakey.com](http://datakey.com)
  - 2: See Mini-Bar receptacle datasheets for mechanical and environmental specifications when mated.
  - 3: "x" indicates optional color number. "A" suffix on part number indicates RoHS compliance. See CE declaration for details.
  - 4: 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.
  - 5: Complete environmental testing results expected Q3-2025.
- \*Contact ATEK for additional color options.

221-0227-000 Rev. B 4/25

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