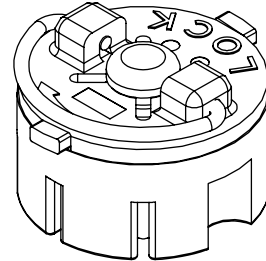
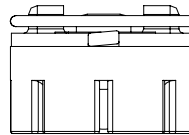
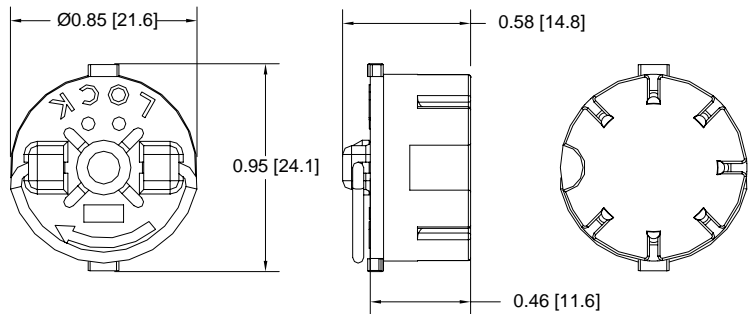


The SSP Series is a portable data carrier containing 2Kb to 256Kb non-volatile serial SPI<sup>1</sup> EEPROM memory that is sealed against moisture and other corrosive elements. Designed to perform in harsh environments, the SSP provides corrosion-resistant contacts and is resistant to vibration, static, magnetic fields, X-ray radiation, and drop shock. Small enough to carry in a pocket or on a keychain, the SSP is a convenient way to store and transfer data, such as encryption keys for use with mobile computer and communications equipment.

Mechanical	
Color	Black w/Gray Top
Weight	8.5 g (0.3 ounces) maximum
Bail Torque	1.4 Nm (12 inch-pounds) maximum
Bail Pull	67 N (15 pounds) minimum 110 N (25 pounds) maximum
Contact Life	10,000 minimum insertion/removals
Shock	Meets or exceeds MIL-STD-883F, Method 2002.4 Test Condition A
Vibration	Meets or exceeds MIL-STD-883F, Method 2007.3 Test Condition A
Electrical <sup>1</sup>	
Power, Active	25 milliwatts, typical at 5V
Power, Standby	200 microwatts, typical at 5V
Voltage <sup>3</sup>	2.7 to 5.5V
ESD Protection	12kV
Environmental	
Storage Temperature	-40° C to +100° C
Operating Temperature	-40° C to +85° C
Relative Humidity	0% to 95% (non-condensing)
Memory <sup>1</sup>	
Plug:	Capacity:
SSP2Kb	2Kb (2048 bits) 256 x 8
SSP16Kb	16Kb (16384 bits) 2048 x 8
SSP64Kb	64Kb (65536 bits) 8192 x 8
SSP256Kb	256Kb (262,144 bits) 32768 x 8
Read Cycles	Unlimited
Write/Erase Cycles	1,000,000 Minimum
Data Life (Storage)	10 Years Minimum
Mating Component(s)	
KSD Receptacle	615-0004-000A
Reader/Writer	Consult factory.
Ordering Information <sup>2</sup>	
SSP2Kb	614-0008-000A
SSP16Kb	614-0009-000A
SSP64Kb	614-0010-000A
SSP256Kb	614-0011-000A



Refer to KSD Receptacle data sheet for pin-out information.



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

#### NOTES:

- 1: Complete SPI Interface Specification available at: [http://www.datakeyelectronics.com/technical\\_inter\\_specs.html](http://www.datakeyelectronics.com/technical_inter_specs.html)
- 2: "A" suffix on part number indicates RoHS compliance.
- 3: **Design Recommendation:** 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 is no immediate or certain future difficulties in the procurement of memory devices that operate with  $V_{cc}$  in the 4.5 to 5.5 volt range, it is possible the future availability of such memories may be impacted as semiconductor manufacturers continue to shrink their die geometries. Please contact the factory if you have any questions pertaining to this with your current or legacy design.

