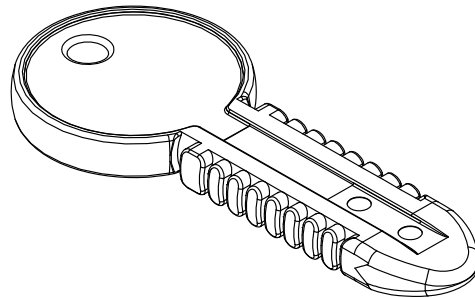
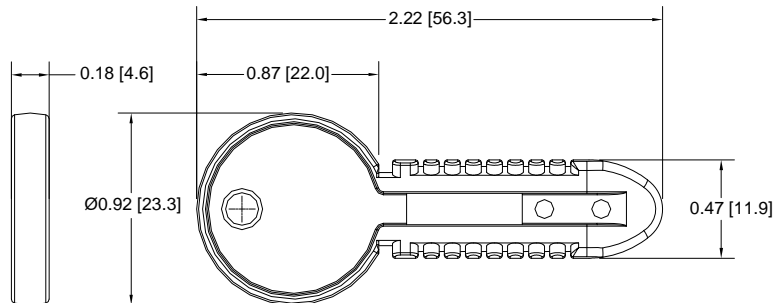


Datakey Electronics IEK Series of CryptoMemory¹ Keys incorporates the highly secure symmetric dynamic mutual authentication protocols provided by Atmel Corporation's CryptoMemory products². Encrypted passwords, mutual authentication, data encryption, and encrypted checksums provide extremely high levels of data security. Datakey Electronics' IEK Series of Keys is compliant with the Atmel 2-wire protocol and is available with user EEPROM memory capacities of 1Kbit to 256Kbit. The IEK Series features Datakey Electronics' industry-leading solid molded construction, rugged wear-resistant exterior and long-lasting contacts. These Keys interface to Datakey Electronics' standard KC4210 and KC4210PCB Keyceptacles[®] - consult factory.

Mechanical	
Contact Life	15,000 Insertions/Removal Cycles Min.
Contact Arrangement	Fully Redundant (Top:Bottom)
Key Head Shear Limit	15 Pounds
Key Twist Torque Limit	15 Inch-pounds
Electrical	
Power, Active	25 milliwatts typical at 5V
Power, Standby	500 microwatts typical at 5V
Voltage ³	2.7 to 3.6V
ESD Protection	10kV (per Std. 064-1028)
Environmental	
Storage Temperature	-40° C to + 100° C
Operating Temperature	-40° C to + 85° C
Relative Humidity	5% to 95% (non-condensing)
Memory	
Key:	Capacity:
IEK1Kb	1Kb (1,024 bits) 128 x 8
IEK16Kb	16Kb (16,384 bits) 2048 x 8
IEK64Kb	64Kb (65,536 bits) 8192 x 8
IEK256Kb	256Kb (262,144 bits) 32768 x 8
Read Cycles	Unlimited
Write/Erase Cycles	100,000 Cycles Minimum
Data Life (Storage)	10 Years Minimum
Mating Component(s)	
Panel-Mount Keyceptacle [®]	KC4210 Series
PCB Mount Keyceptacle [®]	KC4210PCB
Ordering Information ⁴	
IEK1Kb	611-0110-00XA
IEK16Kb	611-0111-00XA
IEK64Kb	611-0112-00XA
IEK256Kb	611-0113-00XA



For pin-out information, consult factory. Other Key head designs and customization are also available. Contact factory.



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

NOTES:

- 1: CryptoMemory is a registered trademark of Atmel Corporation and is used by permission.
- 2: Visit www.cryptomemorykey.com for complete details.
- 3: Contact factory for 5V operation.
- 4: "X" indicates optional color number. "A" suffix on part number indicates RoHS compliance.

