

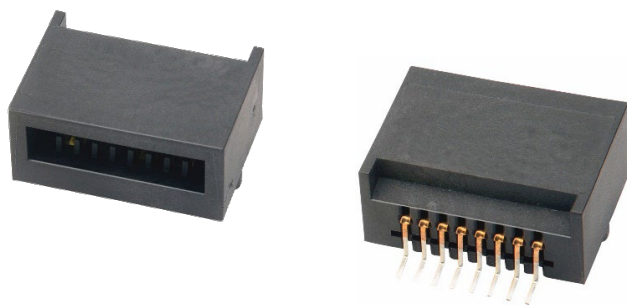
SR4230SM

Board-Mount Receptacles



The SR4230SM board-mount receptacle mates with all Datakey SlimLine™, Extended SlimLine, and RUGGEDrive™ memory tokens (see token datasheets for more details). The SR4230SM receptacles feature a right-angle, board-edge design with surface-mount contacts. The receptacles can be pick-and-placed from their tray and are suitable for use in a reflow oven process.

All Datakey SlimLine receptacles feature “gold dome” contacts that perform reliably over a wear life of at least 50,000 insertion/removal cycles and employ a wiping mechanism to remove debris or build-up on the token's contacts each time a token is inserted or removed. The token/receptacle system provides a Last-On/First-Off (LOFO) contact that is used by system designers to detect when a memory token has been inserted or removed (contact ATEK Access Technologies for token detection details for RUGGEDrive memory tokens)². The SR4230SM receptacle is a space-saving design that has removed the detent mechanism found on the SR4210SM and SR4220SM models, reducing token retention. Because of this, the SR4230SM receptacle is primarily intended for insert-and-remove applications. Since the SR4230SM contains no mounting flange, special care must be taken in the design of the mounting of these receptacles to ensure that excessive stress is not placed on the leads.



MECHANICAL

Operating Life	50,000 Insertion/Removal Cycles Minimum
Mass	~4 grams

ELECTRICAL

Contact Resistance	Beginning of Life: < 100 mΩ
	End of Life: < 500 mΩ

ENVIRONMENTAL

Storage Temperature	-40°C to +100°C
Operating Temperature	-40°C to +85°C
Relative Humidity	5% - 95% (non-condensing)
Altitude	MIL-STD-810H, Method 500.6, Proc. I & II ≤40,000 ft (12,192 m)
Mechanical Shock	MIL-STD-810H, Method 516.8, Proc. I
Vibration	MIL-STD-810H, Method 514.8, Proc. I

MATING COMPONENT(S)

Tokens	All SlimLine and RUGGEDrive Memory Tokens
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ORDERING INFORMATION¹

SR4230SM	606-0057-104A
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- 1: “A” suffix on part number indicates RoHS compliance. See CE declaration below for details.
- 2: Customers must design to meet Datakey interface specifications to provide for future memory device compatibility. Interface specifications available at datakey.com
- 3: RST signal used on IIT Series only.

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.

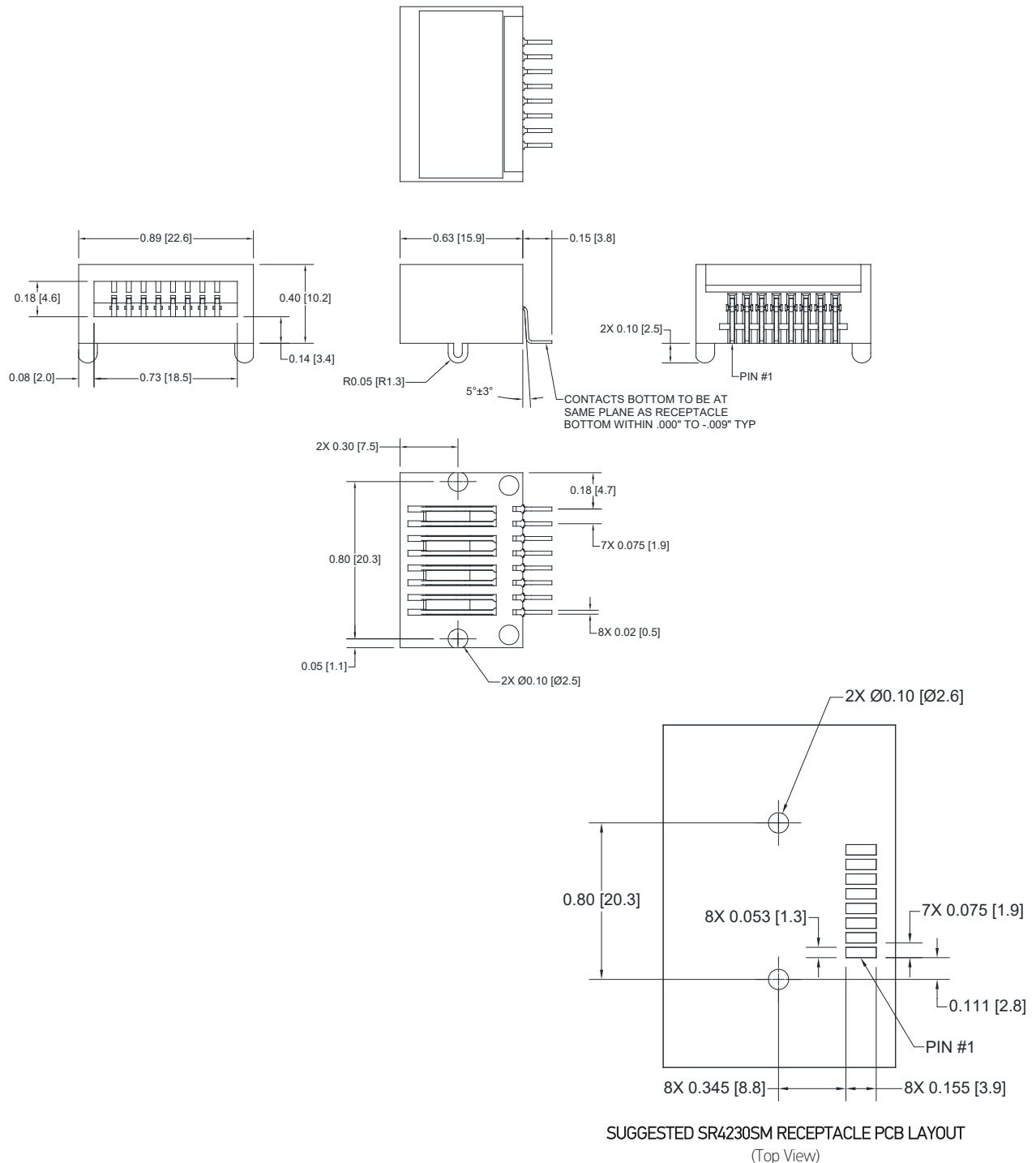


PINOUT CHART²

				RUGGEDRIVE™ LINE		
Pin #	Microwire	I ² C	SPI	DFX (SPI)	DFX (SD)	UXF (USB)
1	LOFO	LOFO	/Hold	Reserved	DAT1	NC
2	Power (V _{cc})	Power (V _{cc})	Power (V _{cc})	Data Out (DO)	DAT0	+5V
3	Chip Select (CS)	SIZE / RST ³	/Chip Select (/CS)	Ground (GND)	VSS	NC
4	Serial Clock (SK)	Serial Clock (SCL)	Serial Clock (SCK)	Serial Clock (SCLK)	CLK	DM
5	Data In (DI)	NC	Data In (SI)	Power (V _{cc})	VDD	DP
6	Data Out (DO)	Serial Add/Data (SDA)	Data Out (SO)	Data In (DI)	CMD	NC
7	Ground (GND)	Ground (GND)	Ground (GND)	/Chip Select (/CS)	DAT3	GND
8	LOFO	LOFO	LOFO	Reserved	DAT2	NC

NC = No Connection

SR4230SM



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

221-0206-000 Rev. D 6/26

View our full product line at www.datakey.com

ATEK Access Technologies
210 10th Avenue NE
Brainerd, MN 56401 USA

Telephone:
1-800-523-6996
+1-218-829-9797

www.atekaccess.com

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