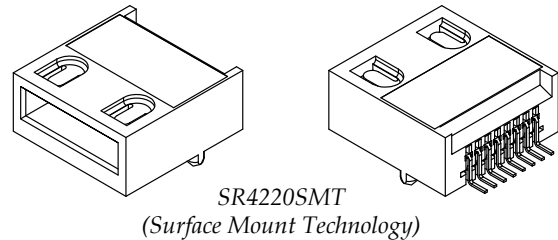
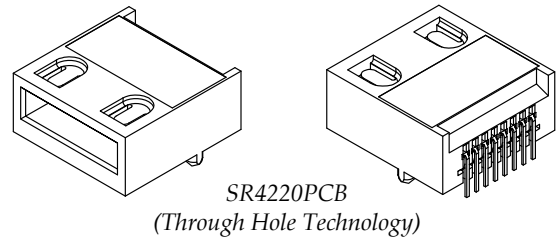


SR4220PCB & SMT Board Mount SR4000 Compact Receptacles

The SR4220PCB Receptacle is a board-mount interface connector for all Datakey Electronics' SlimLine™, Extended SlimLine, NFX, and RUGGEDrive™ Tokens (see token data sheets for more details). The SR4220PCB Receptacle features corrosion-resistant, gold dot contacts that perform reliably over a wear life of at least 50,000 insertion/removal cycles. The receptacle includes a detent mechanism that gives users tactile confirmation when an inserted token is physically engaged. The SR4220PCB also contains a Last-On/First-Off (LOFO) contact that may be used to protect the host bus by ensuring that tokens have made secure contact with the receptacle before any signals are transmitted (please contact factory for this option with NFX, DFX, and UFX Tokens). The SR4220PCB Receptacle is a space-saving component that mounts directly onto a printed-circuit board. The SR4220PCB is a modified version of the standard SR4210PCB -- the **mounting flange has been removed** for space savings. Since the mounting flange has been removed, **special care** must be taken in the design of the mounting of these receptacles to ensure that no stress is placed on the leads. The SR4220PCB is also available with surface mount leads (SR4220SMT⁴).

Mechanical	
Operating Life	50,000 insertion/removal cycles min.
Insertion Force	400 grams min. / 2 Kgrams max.
Removal Force	300 grams min. / 2 Kgrams max.
Vibration	15 G's (three axes) Non-operating
Electrical	
Contact Resistance	Beginning of Life: 100 mΩ
	End of Life: 500 mΩ
Environmental	
Storage Temperature	-40°C to +105°C
Operating Temperature	-40°C to +85°C
Relative Humidity	5% to 95% (non-condensing)
Mating Component(s)	
Tokens	All SlimLine, NFX, DFX, and UFX Tokens
Ordering Information ¹	
SR4220PCB	606-0055-000A
SR4220SMT	606-0055-002A



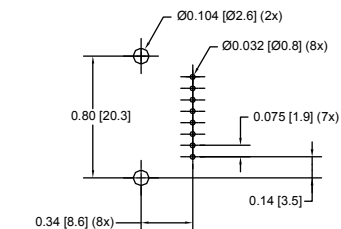
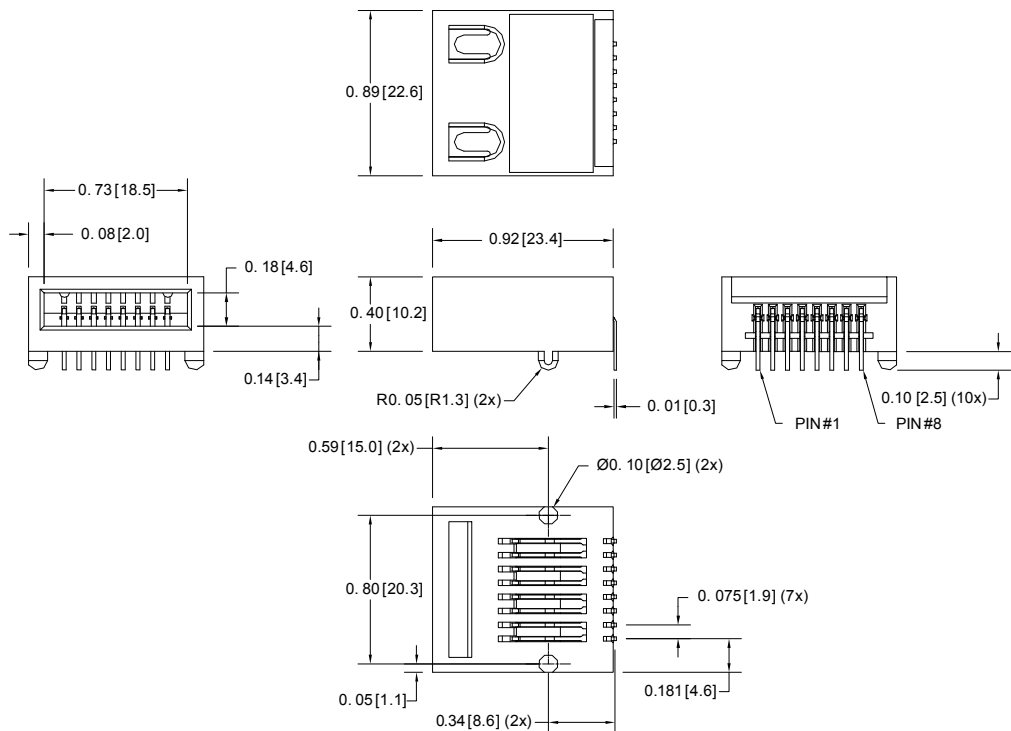
NOTES:

- 1: "A" suffix on part number indicates RoHS compliance.
- 2: Complete Interface Specifications available at http://www.datakeyelectronics.com/technical_inter_specs.html
- 3: RST signal used on IIT Series only.
- 4: Refer to recommended reflow instructions at: http://www.datakeyelectronics.com/technical_reflow.html

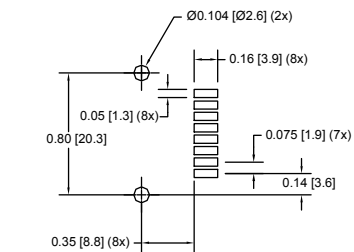
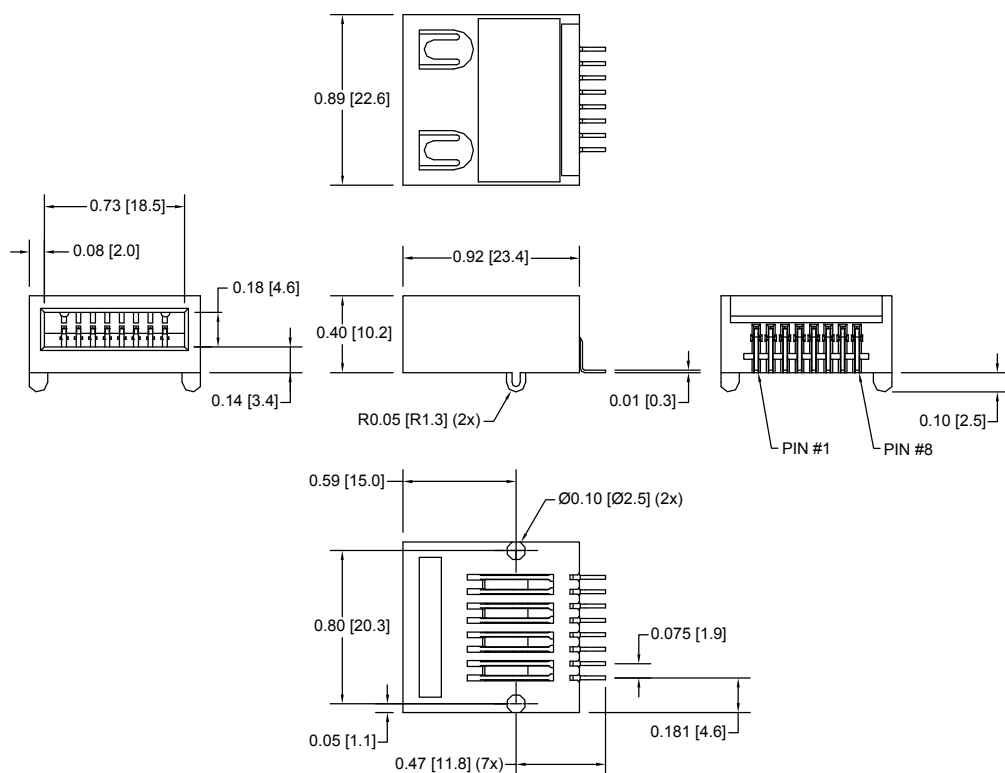
Pin-Out Chart ²					RUGGEDrive™ Line	
PIN #	Microwire	I ² C	SPI	NFX	DFX (SPI)	UFX (USB)
Pin 1	LOFO	LOFO	/Hold	DP (USB)	Reserved	NC
Pin 2	Power (V _{CC})	Power (V _{CC})	Power (V _{CC})	Power (V _{CC})	Data Out (DO)	+5V
Pin 3	Chip Select (CS)	SIZE / RST ³	/Chip Select (/CS)	/Chip Select (/CS)	Ground (GND)	NC
Pin 4	Serial Clock (SK)	Serial Clock (SCL)	Serial Clock (SCK)	Serial Clock (SCK)	Serial Clock (SCLK)	DM
Pin 5	Data In (DI)	NC	Data In (SI)	MOSI	Power (V _{CC})	DP
Pin 6	Data Out (DO)	Serial Add/Data (SDA)	Data Out (SO)	MISO	Data In (DI)	NC
Pin 7	Ground (GND)	Ground (GND)	Ground (GND)	Ground (GND)	/Chip Select (/CS)	GND
Pin 8	LOFO	LOFO	LOFO	DM (USB)	Reserved	NC

NC = No Connection





PCB RECEPTACLE PATTERN LAYOUT (THT)



SMT RECEPTACLE PATTERN LAYOUT

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

