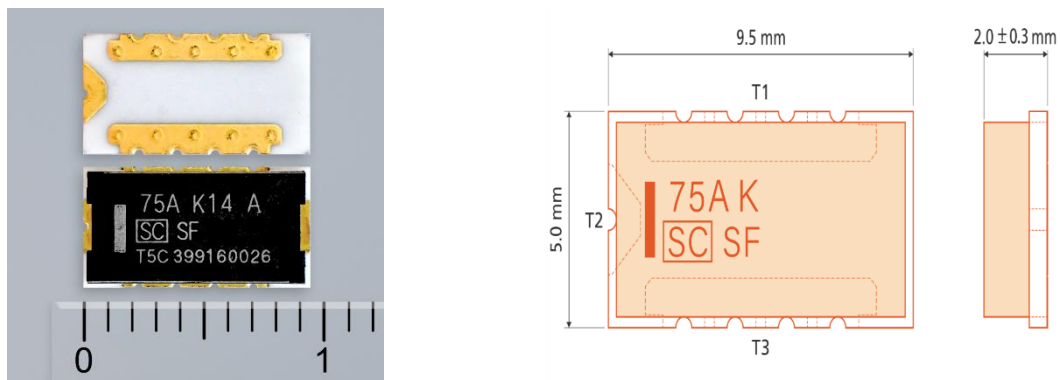


Dexerials Creates Surface Mount Fuse with a Maximum Rated Current of 75A: SFK 75A Series of Self Control Protectors Newly Commercialized

Dexerials Corporation (Headquarters: Shimotsuke-shi, Tochigi; Representative Director and President: Yoshihisa Shinya, hereinafter “Dexerials”) is pleased to announce the commercialization of the SFK 75A series of self control protectors which achieve the highest maximum rated current of any of our surface mount fuses,^{*1} supporting a rated voltage of 62 VDC and a rated current of 75A.



The Self Control Protector (“SCP”) is a surface mount fuse that acts as a protective element for secondary protection circuits, designed to melt the fuse element and cut off the circuit when the primary protection controlling the charging and discharging of lithium-ion batteries fails to function correctly, resulting in overcharging or an overcurrent. Since the launch of SCPs in 1994, they have been widely adopted in devices such as laptops and smartphones. Recently, with the expansion of the applications for lithium-ion batteries, they have also been used in power tools and electric bikes, and with the advancement of AI technology, they are being used in battery backup units (BBUs)^{*2} for AI servers in data centers, an area where demand is increasing.

For a long time, customers have been requesting SCP products that are capable of handling the high currents that are necessary for improving the performance of final products, and we have been advancing development. The SFK 75A series optimizes our proprietary low-resistance fuse element technology, making it possible for the new SCPs to maintain the same size as conventional 60 A-rated SCPs while being widely used in applications requiring high capacity and high output with large currents. With their compact size of 9.5 mm wide, 5.0 mm high, and 2.0 mm thick, these SCPs also contribute to space-saving measures within final products.

Additionally, this series will be exhibited for the first time at [The Battery Show Europe](#), Europe’s largest battery technology exhibition which is scheduled to be held in Stuttgart, Germany starting on Tuesday, June 3, 2025.

Our company will continue to provide a wide variety of products to facilitate the use of SCPs, which have many different applications, and by enhancing global recognition of SCPs as a product that contributes to the improvement of the safety of lithium-ion batteries, we will contribute to the evolution of technology.

^{*1} As of May 2025, excluding screw-type.

^{*2} Devices that supply power to computers and servers during main power outages or voltage drops.

1. Details of the SFK 75A Series of Self Control Protectors (SCPs)

■ Product Name: SFK 75A Series of Self Control Protectors (SCPs)

SFK-1275/SFK-2075/SFK-5075

■ Features

- Achieves a rated current of 75A, the highest achieved by any of our surface-mountable secondary protection fuses
- Compact but supports high currents, ideal for electric bikes, power tools and storage batteries
- The lineup includes products that support up to 14 cells

■ Specifications

Product name	SFK-1275	SFK-2075	SFK-5075
Applicable cells in series	3 cells	5 cells	12 to 14 cells
Rated current (A)	75		
Rated voltage (VDC)*3	62		
Rated breaking capacity (A)	200		
Operating voltage (V)	10.5 to 13.5	17.6 to 22.5	48.0 to 62.0
Heater resistance (Ω)	1.83 to 2.75	5.10 to 7.70	38.50 to 57.40
Fuse resistance (mΩ)	0.7 mΩ		
Dimensions (mm)	9.5 x 5.0 x 2.0 mm		

*3 This is the maximum voltage that can be interrupted by the fuse section. Please note that this is not the operating voltage of the heater section.

2. About the SFK 75A Series Exhibition

The Battery Show Europe is Europe's largest battery technology exhibition where advanced battery technology, hybrid electric vehicle technology, and the entire battery energy storage supply chain come together. We will exhibit at the Dexerials booth at this exhibition.

- Exhibition Name: The Battery Show Europe
- Exhibition Period: June 3, 2025 (Tuesday) to June 5, 2025 (Thursday)
Dexerials Booth (Booth 4-B31)
- Exhibited Products: Surface mount fuses (protective elements), etc.*

* Thank you for understanding that the products exhibited may change.

For details: [Dexerials to Participate in The Battery Show Europe in Stuttgart, Germany](#) | [Dexerials](#)

<Corporate Profile>

Dexerials develops, manufactures and distributes electronic components, adhesive materials, optical materials and other functional materials that are indispensable in smartphones, laptops and other electronic devices, in addition to components for automobiles, which are increasingly becoming electronic, making electronics parts ever more indispensable. Also, as a starting point in contributing toward the realization of further growth and a sustainable society, Dexerials has defined its Purpose: "Empower Evolution. Connect People and Technology" as explained in the website section. ([Corporate Philosophy, Vision and Purpose](#) | [About Dexerials](#) | [Dexerials](#))

Company name: Dexerials Corporation

Head office: 1724 Shimotsuoyama, Shimotsuke-shi, Tochigi

Representative: Yoshihisa Shinya, Representative Director and President

Established: June 20, 2012

Official website: <https://www.dexerials.jp/en/>