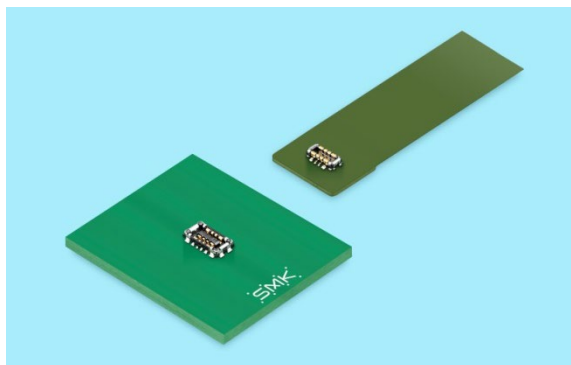


## SMK Develops FPC to Board Connector for Small Mobile Devices Featuring Industry's Smallest Class Mounting Area (40% Smaller than Conventional Products)



SMK Corporation has developed the "FB-10 series" FPC to board connector for connecting the batteries of small mobile devices, which expands the product line of "FB series".

In the small mobile device market in recent years, there has been a growing demand for even smaller connectors for connecting batteries. The newly developed "FB-10 series" features its space-saving design. With SMK's original structure, it achieved the stack height of 0.6 mm and the external dimensions of 1.7 mm (width) x 3.2 mm (Depth), allowing 40 percent smaller mounting area than the company's conventional products\*.

In order to meet the requirements for the increase in the number of signal pins for improved functionality of batteries, "FB-10 series" is configured with four signal pins (two more than the "FB -7 series").

Furthermore, it is built with a unique locking structure on the terminal and hold-down, which offers high retention force in spite of its small size and low profile.

\*In comparison with SMK's conventional product "FB-7 series" with comparable rated current (3.5A/power pin).

### **Applications**

Wearable devices such as smart watches, smartphones, tablet PCs, and other mobile devices

Published Date	July 3rd, 2019	
Press Release Number	1118CS	
Product Name	"FB-10 Series" FPC to Board connector for Battery Connection	
Features	<p>1) Industry's smallest class space-saving design that contributes to the miniaturization and improved design freedom of final products.</p> <p>2) Rated at 3A/Pin (power), 0.3A/Pin (signal).</p> <p>3) Configured with 8 pin design (4 signal, 4 power) to satisfy the increased functionalities of batteries in miniature devices.</p> <p>4) Built with SMK's unique locking mechanism on the contact terminal and hold-down that offers high retention force.</p> <p>5) RoHS compliant.</p>	
Major Specifications	Number of Pins	8 (4 power + 4 signal)
	Rating	20V AC/DC 0.3A/pin (signal), 3A/pin (power)
	Contact Resistance	20mΩ maximum (power), 40mΩ maximum (signal)
	Insulation Resistance	100V DC (2 minute) / 1000MΩ
	Withstanding Voltage	100V AC (1 minute)
	Operating Temperature Range	-25°C to +85°C
	External Dimensions	Width: 1.7mm Depth: 3.2 mm Stack height: 0.6 mm
	Mounting Area	5.44mm <sup>2</sup>
	Operating Life	10 cycles
	Packaging	Reel



Start Taking Orders From	September 2019
Production Capacity	3,000,000 units per month
Sample Price	100 yen per unit
Inquiry	<a href="#">For more information, please contact CS Division</a>