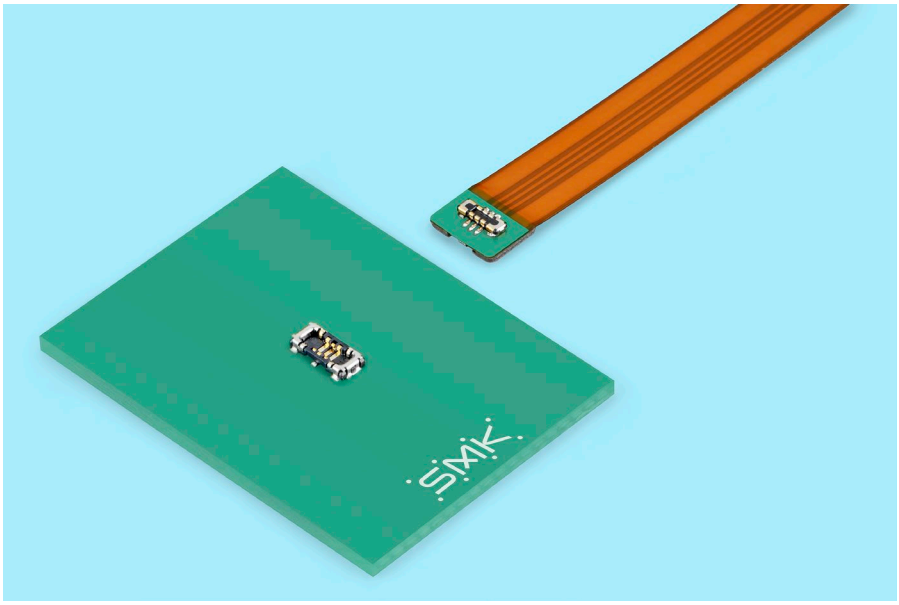
PRESS RELEASE

SMK Develops Industry's Smallest FPC to Board Connector for Wearable Devices



SMK Corporation has developed the "FB-1E" FPC to board connector for battery connection with new structures and expanded "FB series".

Connectors for battery connections in the wearable device market need to be smaller and thinner than smartphone. This product has achieved a significantly smaller size with a 0.5mm stacking height (the lowest in the industry*), 1.5mm width, and 3.2mm length, compared to the connectors used in smartphones, which commonly have a 0.6-0.7mm stacking height, 2.0-2.5mm width, and 4.3-6.0mm length. The mounting area is also one of the smallest in the industry, with a 52% reduction compared to the company's conventional product.

It has three signal pins besides power pins for an increased number of signals as batteries become more multifunctional.

【Applications】

Battery connection for smart watches, smartphones, and other small/thin devices

* According to SMK's research

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Published Date	October 22nd, 2020	
Press Release Number	1134CS	
Product Name	“FB-1E” FPC to Board Connector for Battery Connection	
Features	1) 4.8mm^2 industry’s smallest class mounting area and 0.5mm industry’s lowest stacking height. 2) Current of up to 3A. 3) Three signal pins.	
Major Specifications	Rating	20V AC/DC, 3.0A (power), 0.3A (signal)
	Contact Resistance	10mΩ maximum (power), 30mΩ maximum (signal)
	Insulation Resistance	1000MΩ minimum
	Withstanding Voltage	100V AC (1 minute)
	Operating Temperature Range	-25°C to +85°C
	Stacking Height	0.5mm
	External Dimensions	0.5mm x 1.5mm x 3.2mm
	Mounting Area	4.8mm^2
	Operating Life	10 cycles
	Mounting Method	SMT
	Packaging	Reel
Start Taking Orders From	Started	
Goes Into Mass Production From	Started	
Production Capacity	1,500,000 units per month	
Sample Price	100 yen per unit	
Inquiry	For more information, please contact CS Division	

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