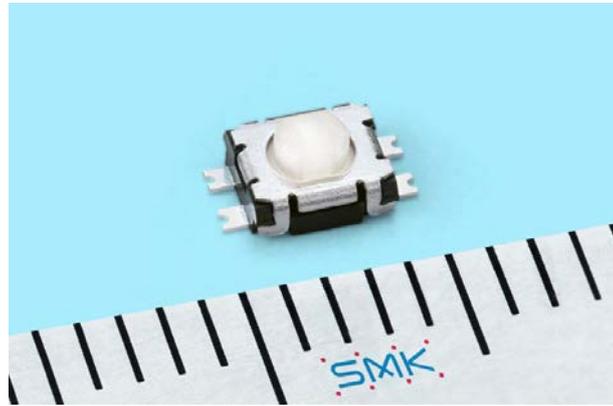


**SMK Expands Product Lineup of Push Switches “HCF Series”
with products with advanced operability,
providing greater design freedom**



SMK Corporation has expanded the existing product lineup of push switches “HCF (High Click Feeling) Series” by adding two low-operation-force products for consumer products.

The previous products of the “HCF Series” for automobiles had the specifications that recommend pressing the key top of switches vertically to ensure reliable operation.

On the contrary, switches incorporated in consumer products are, in some cases, depressed slantingly due to the structural restriction of final products. It has conventionally been issues that operation feeling varies in such cases.

The newly developed low-operation-force (1.7N, 2.4N) products are capable to operate stably even when they are depressed at the edge part or slantingly, and provide favorable click feeling due to SMK’s unique stem structure. Operating force is invariable when depressed with maximum angle of 4 degrees, improving the product design freedom.

Furthermore, it has the industry’s smallest-level external dimensions (identical within all HCF Series products) as key top-attached push switches, resulting in smaller and thinner final products. The contact point is dustproof due to the sealing structure as with the previous products, achieving high contact reliability.



【Applications】

Portable audio equipment, digital cameras, communication apparatus such as video conference system, sanitary, keyless entry systems, car navigation equipment, etc.

Published Date	July 20th, 2017	
Press Release Number	1083FC	
Product Name	Push Switch "HCF Series" Part Number: JPM1991 – 0611F (2.4N) JPM1991 – 0411F (1.7N)	
Major Specifications	Rating	50mA, 12V DC
	Operating Force	2.4N, 1.7N
	Travel	0.17mm ± 0.1mm
	Operating Life	200,000 cycles
	Circuit	SPST (Single Pole Single Throw)
	External Dimensions	4.8mm (W)×3.0mm (D)×1.85mm (H)
Goes Into Mass Production From	October, 2017	
Production Capacity	1,000,000 units per month	
Sample Price	50 yen per unit	
Inquiry	For more information, please contact the FC Division	