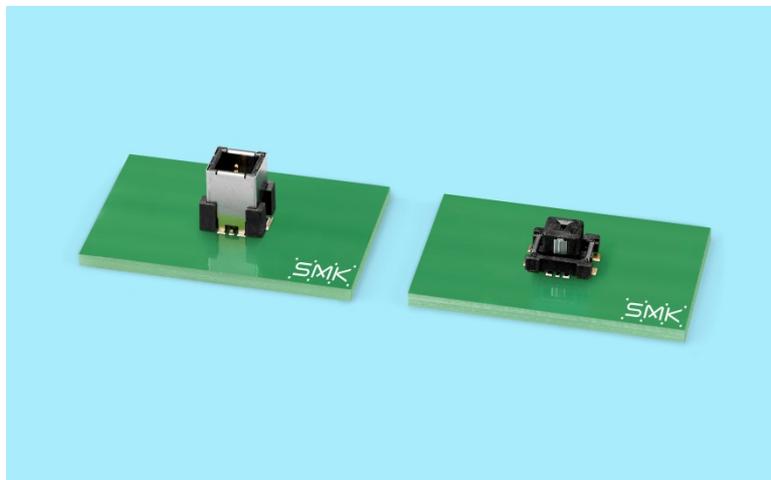


SMK Develops Board to Board Floating Coaxial Connector with High-frequency Performance



SMK has developed a board to board coaxial connector equipped with a floating mechanism.

In recent years, the demand for coaxial connectors is increasing in automotive market amid the spread of Intelligent Transport System (ITS) devices.

SMK's new connector was developed for connection between boards in the automotive devices such as engine control unit (ECU) or smart antenna, and it is also ideal for base station and factory automation equipment which is adopting Internet of Things (IoT) at an accelerated pace.

The connector is designed to be small and capable of high-frequency operation in order to contribute to the downsizing of final products. It has also a floating allowance of $\pm 0.5\text{mm}$ in XYZ directions that enables to absorb the mating gap occurred in connecting board to board.

Going forwards, SMK will strive to develop height variations of the connector and further expand its product lineup.

【Applications】

Automotive devices (such as ECUs, smart antennas), base stations, factory automation equipment.



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Press Release Number	1105CS	
Product Name	Board to Board Floating Coaxial Connector	
Features	1) High-frequency performance covering from DC to 6GHz. 2) Floating allowance of $\pm 0.5\text{mm}$ in XYZ directions. 3) Reflow-solderable. 4) RoHS compliant.	
Major Specifications	Rating	0.5A, 50V AC/DC
	Frequency Range	DC to 6GHz
	Nominal Impedance	50 Ω
	VSWR	DC to 3GHz: 1.3 maximum 3 to 6GHz: 1.4 maximum
	Insertion Loss	DC to 3GHz: 0.3dB maximum 3 to 6GHz: 0.8dB maximum
	Operating Temperature Range	-40°C to +105°C
	Mounting Direction	On-board
	Mounting Method	Reflow soldering
	Packaging	Reel
	Mounting Height	10mm (between boards)
	Mounting Area	Socket: 7.5mm x 6mm = 45mm ² Plug: 7mm x 6mm = 42mm ²
	Operating Life	10 cycles
	Sample Price	500 yen per unit
Inquiry	For more information, please contact CS Division	