

SMK Develops the "TS-X" series, the Industry's Lowest Profile Coaxial Connector with Switch



SMK Corporation has developed the "TS-X" series; an ultra-low-profile coaxial connector with a switch that can be used to inspect and measure the high frequency properties of mobile communication equipment.

In recent years, the demand for connectors used for inspection has increased due to the expansion of wearable devices and equipment with communication functions such as IoT products. Simultaneously, as the trend for thinner and smaller products rise in popularity, the miniaturization of installed components is also required.

SMK's newly developed coaxial connector has been scaled down to be the smallest overall size in the industry (Outer dimensions: 0.58mm height × 1.78mm depth × 1.48mm width), a reduction of about 54% in area and about 39% in height compared to the standard series under production "TS-11", resulting in additional space for design freedom for end products. In addition, it possesses high-frequency performance covering up to 11 GHz.

The inspection plugs are available in two forms: A self-standing mating type, useful for evaluation and product development; and probe type, suitable for automatic inspection in mass production.

[Applications]

Smartphone, wearable devices, tablet PCs, wireless LAN, etc.



Date Released	February 7th, 2017	
Press Release Number	1076CS	
Product Name	Ultra-low-profile coaxial connector with switch, "TS-X" series Part Number: CRS5001-6901F	
Product Features	<p>1) The lowest profile in the market. Height: 0.58mm Mounting area: 1.48mm (W) x 1.78mm (D)</p> <p>2) Suitable for high frequency inspection. Wide frequency range up to 11GHz.</p> <p>3) Two types of applicable inspection plugs are provided. For evaluation and development: self-standing mating type For automatic inspection: probe type</p>	
Major Specifications	Rating	50V AC/DC
	Frequency Range	DC to 11GHz
	Nominal Impedance	50Ω
	VSWR (Normally Closed)	1.3 maximum (DC to 6GHz), 1.5 maximum (6 to 11GHz)
	Operating Temperature Range	-25°C to +85°C
Sample Price	200 yen per unit	