

SMK Develops a Waterproof FAKRA Connector for Automotive Devices



SMK Corporation has developed a waterproof FAKRA-compliant connector for automotive devices meeting the waterproof standard of IPX7 when mated with plug.

There is increasing demand for FAKRA-compliant coaxial connectors for antennas of GPS, TV and radio as well as for automotive cameras and vehicle-side electronic control units (ECU).

SMK's new FAKRA connector has been scaled down to contribute to miniaturization of automotive devices. Cable plug (right in the image) can pass through $\Phi 12\text{mm}$ holes.

In addition, it possesses high-frequency performance covering from DC to 4GHz.

Customers can request custom products using a different specified cable (1.5D and RG174 are applicable) other than what SMK is providing ("1.5DS-QEHB" of Shikoku Cable). In that case, confirmation of detailed specification of the cable by SMK Corporation is required.

【Applications】

Automotive devices (antennas, surround monitoring camera modules, etc.)



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Product Name	Waterproof FAKRA Connector Part Number: CRC1001-57XXF CRS9001-30XXF	
Major Specifications	Rating	60V AC, 1A
	Frequency Range	DC to 4GHz
	Nominal Impedance	50Ω
	VSWR	1.3 maximum (DC to 2GHz), 1.5 maximum (2GHz to 4GHz)
	Operating Temperature Range	-40°C to +85°C
Release Date	May, 2017	
Production Capacity	300,000 units per month	
Sample Price	300 yen per unit	
Inquiry	For more information, please contact the CS Division	