



SMK Develops a Small Coaxial Connector for High Pixel Automotive Camera Modules



SMK Corporation has developed a small coaxial connector for automotive camera modules.

Camera modules are increasingly found on vehicles in recent years for the purpose of rear viewing, surround monitoring, and sensing. There is also a new demand for digital transmission along with heightened pixel quality of the camera.

The new SMK coaxial connector was developed especially for high pixel automotive camera modules and is small for downsizing measures.

The waterproof and airtight structure of the cable assembly ensures an excellent waterproof performance. Two types of cables (straight and right angled) are provided, and customers are able to choose either according to the mounting location of the camera module.

【Product Features】

1. Suitable for a high pixel automotive camera module

- This product is a small coaxial connector with a high performance and favorable high-frequency quality suitable for high pixel automotive camera modules.



2. High waterproof and airtight performance

- With SMK's original technologies, this connector has an inner airtight structure and an outer waterproof structure meeting IPX7 and IPX9K standards.

3. Two types of cables are available (straight and right angle)

- Customers are able to choose the straight typed cable or the right angle typed cable according to the mounting location of the camera module.

【Applications】

Automotive devices (rearview camera, electronic control unit, etc.)

Date Released	2016-11-09
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Product Name	Small Coaxial Connector for Automotive Camera Module (Straight Cable/ Right Angle Cable)
Features	<ol style="list-style-type: none"> 1) Coaxial connector with a small form factor for automotive camera modules. 2) Operating frequency range is from DC to 3GHz, providing a high performance and favorable high-frequency quality. 3) Waterproof and airtight structure on the cable side. 4) The cable will be provided as a harness in order to ensure the transmission and waterproof performance. 5) RoHS compliant.



Major Specifications	Rating	250V AC / 1A
	Frequency Range	DC to 3GHz
	Nominal Impedance	50Ω
	VSWR	1.3 maximum (DC to 1.0GHz), 1.5 maximum (1GHz to 3GHz)
	Operating Temperature Range	-40°C to +105°C
Release Date	October, 2016	
Production Capacity	500,000 units per month	
Sample Price	Receptacle: 300 yen per unit, Plug and cable: 2,000 yen per unit	