RF Connectors

Series 6791: Single Piece SMT RF IDC Coaxial Connector

Click for Datasheet

http://datasheets.avx.com/
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AVX INTERCONNECT
A KYOCERA GROUP COMPANY

Market Statement

RF connection has traditionally been divided into two areas; low cost soldering direct to a PCB or higher cost two-piece solutions with manual operations. The low cost soldering has the advantage on cost but also is the least favourable condition for RF performance. High price point connectors solve the RF performance issue but can be large and require manual assembly on two parts. The AVX solution is a one piece SMT IDC RF connector that combines RF performance and lower cost, lower assembly time than either traditional method.

Competitors/AVX Advantages

Competition:

Amphenol, Huber & Suhner, Rosenberger, TE, Molex, hand soldering

Advantages:

- Unique solution to RF connection not existing in the market.
- Size and strength means it can be utilised in space-critical applications.
- Possible to automate much of the assembly process.

Top Selling Points

- Good RF performance up to 6GHz, one part can cover multiple frequency applications.
- Small package size and mechanical strength allows usage in Auto and Industrial Applications.
- Can replace costly traditional RF connector systems.
- Easy assembly process with ability to automate.

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Key Specifications

Sizes

- Nominally for RG-174, 1.5CSQHEV, 1.5DSQHEV (check cable tolerances on datasheet)

Electrical

- Working Voltage: 125V ac
- Proof Voltage: 375V ac (rms)
- Current: 0.5A (cable dependent)

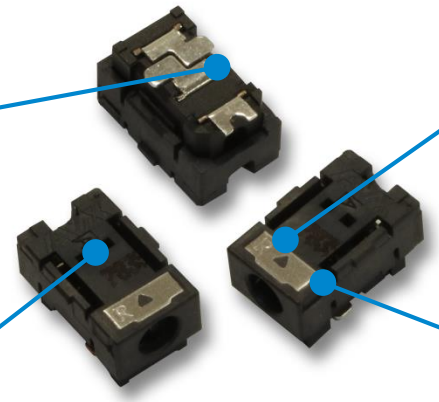
Environmental

- Operating Temperature: -40°C to +105°C

Applications

- Shark Fin Automotive Antennas
- Smart Metering Systems
- RF Security Systems
- Card Entry Access
- Industrial Automation

Product Overview



Contact tails configured to be accessible after placement.

Identifying mark on cap to distinguish from different versions

Windows on the cap to check cable position by camera.

Mechanical bracing to give stronger horizontal and vertical pull force.

FAQs

Q: Can I use this on Bluetooth and WiFi protocols?
A: Yes, depending on the system frequency but most will operate below 6GHz.

Q: Do I have to place this manually on the PCB?
A: No, the part is supplied in tape and reel and can be positioned by a pick and place machine.

Q: Will I need some kind of strain relief to guard against the cable pulling out?
A: That will depend on the forces the connector will be subjected to. 6791 can withstand 70Nm in the horizontal plane and 20Nm in the vertical.

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