



These high-performance air dielectric coaxial cable connectors are characterized by excellent gas tightness and extremely low losses. The connectors can be installed with basic hand tools. Tab flange of outer connection and use of o-ring sealing simplifies installation of the connector. The connectors are fully tested for mechanical and electrical compliance to specifications. The connectors have excellent electrical values and provide outstanding performance for the most demanding applications. The connector design provides maximum sealing integrity and gas tightness.

#### FEATURES / BENEFITS

- Easy installation utilizing only basic hand tools.
- Tab flare of outer contact attachment means quick and simple installation.
- No need for sealing compound. The connector is ready for pressurization immediately after installed to the cable.
- Excellent gas tightness. Overpressure for increased voltage handling is maintained throughout the system.
- Outstanding VSWR performance improves overall system performance.
- Totally waterproof, assures safe, long term operation in the harshest of environments.
- RoHS (EU) and CRoHS (China) compliant, can be used on a global basis.



78EIA Connector for HCA78 Cable

#### External Document Links

#### Notes

1) The connector is converted to gas pass by drilling through the pilot hole in the insulator.

2) Connector model with -019KT suffix denote connectors that are supplied with an inner connector and flange hardware.

Connector model -019 does not include an inner connector and flange hardware.

## Technical features

#### GENERAL SPECIFICATIONS

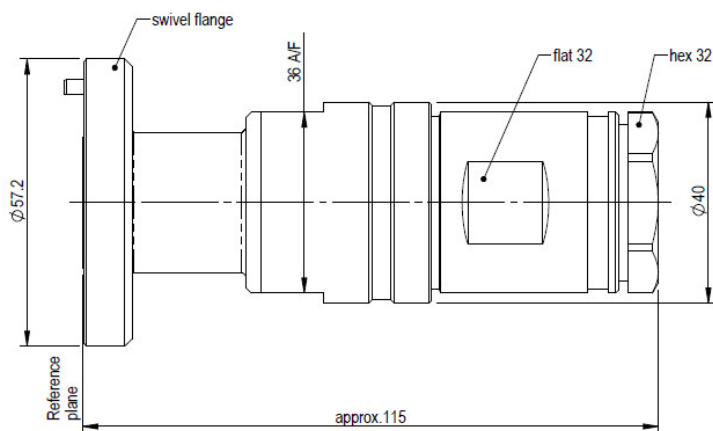
|                        |  |                                  |
|------------------------|--|----------------------------------|
| Transmission Line Type |  | Coaxial Cable                    |
| Cable Size             |  | 7/8"                             |
| Cable Type             |  | Air Dielectric                   |
| Model Series           |  | HCA78-50 Series                  |
| Connector Interface    |  | 7/8" EIA                         |
| Connector Type         |  | Gas stop/ Gas pass - See Note 1) |
| Sealing Method         |  | O-ring seal                      |
| Gender                 |  | Female - See Note 2)             |

#### ELECTRICAL SPECIFICATIONS

|                   |           |  |
|-------------------|-----------|--|
| Insertion loss    | dB        | < 0.05dB   |
| VSWR, Return Loss | VSWR (dB) | 0 to 1 GHz: 1.02 (40)<br>1 GHz to 2.7 GHz: 1.07 (30) |

#### MECHANICAL SPECIFICATIONS

|                          |         |                  |
|--------------------------|---------|------------------|
| Plating Outer/Inner      |         | Tri Plate/Silver |
| Length                   | mm (in) | 115 (4.53)       |
| Outer Diameter           | mm (in) | 57.2 (2.25)      |
| Outer Contact Attachment |         | Tab Flare        |



78EIA-HCA78-019 connector, dimensions in mm