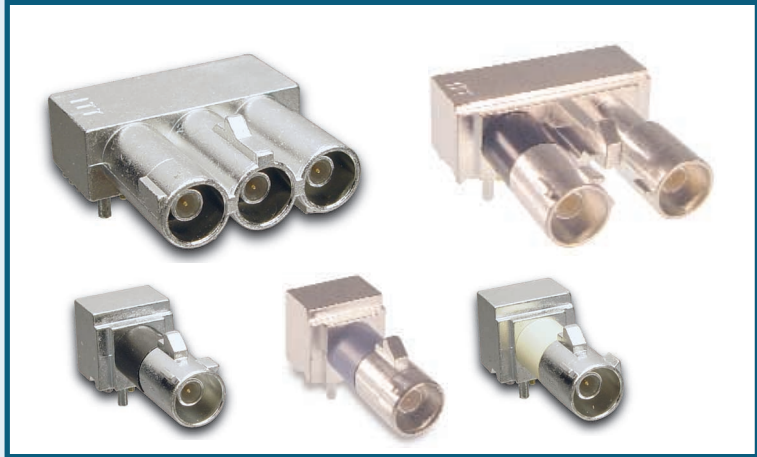


Features/Benefits

- **Robust Connector made of one metal piece**
- **Supports 0 to 4 GHz transferring speed**
- **Available in a variety of Fakra codes**

Typical Applications

- **Bluetooth**
- **Global positioning satellite**
- **Remote vehicle diagnostics**
- **Satellite radio**
- **Vehicular internet access**



Fakra is a standard developed by the DIN group for RF connectors used in “Road Vehicle” applications. RF connectors are fitted with a color coded, and polarized diecast housing.

Fakra Connectors are available in 1, 2 and 3 way right-angle PCB versions. They are ideally suited for circuit miniaturization and are offered in a wide range of configurations which includes, black (A), natural (B), blue (C), violet (D), beige (I).

The desirable feature of the new 50 ohm Fakra connector is its consistent low mating and unmating forces, extremely low VSWR and insertion loss (IL) values up to 4 GHz.

FAKRA

Performance Specifications

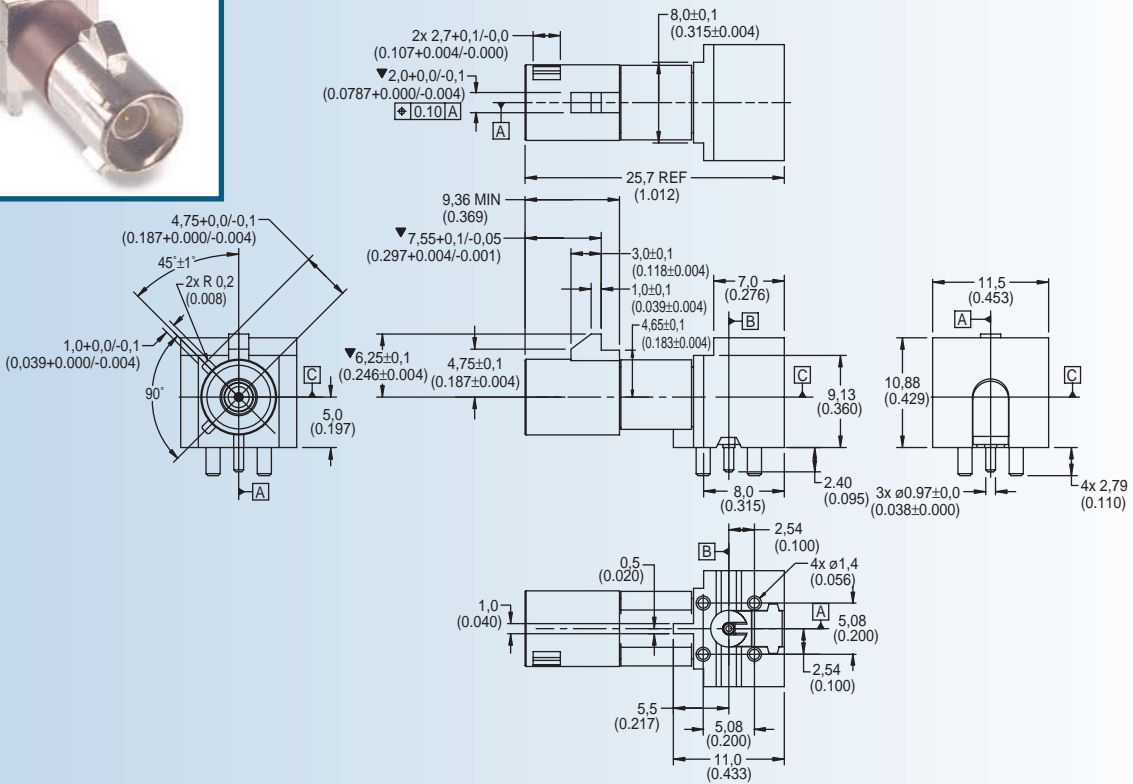
| | |
|--------------------------------------|---|
| CONNECTOR DURABILITY: | 50 mating cycles min. |
| CONTACT RESISTANCE, INNER CONDUCTOR: | 6.0m Ω max. before environment 8.0m Ω max. after environment |
| CONTACT RESISTANCE, OUTER CONDUCTOR: | 2.0m Ω max. |
| CORONA LEVEL: | 190 V min. |
| DWV (PIN-TO-CASE): | 750 VAC rms |
| IMPEDANCE: | 50 Ω |
| INSERTION LOSS: | 0.8 to 2 GHz: 0.35 dB max. 2 to 3 GHz: 0.45 dB min. |
| MATING FORCE: | 1 way: 75 N max. 2 way: 100 N max. 3 way: 100 N max. |
| MOUNTING: | Thru-hole |
| NUMBER OF CIRCUITS: | 1, 2, 3 |
| OPERATING TEMPERATURE: | -40°C to 105°C (-40°F to 221°F) |
| PACKAGING: | 1 way: Tape & reel 2 way: Tape & reel 3 way: Tube of 20 pieces |
| PEAK SOLDER TEMPERATURE EXPOSURE: | 30 s |
| RF LEAKAGE: | 0.8 to 3 GHz: -40 dB min. |
| STORAGE TEMPERATURE: | -40°C to 105°C (-40°F to 221°F) |
| VSWR: | 1.2 max. at 3 GHz |

Materials and Finishes

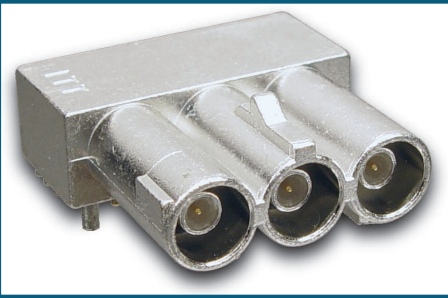
| | |
|------------------|---|
| HOUSING: | Zinc alloy, Tin lead plating |
| CONTACT: | Brass or beryllium copper, Gold plating |
| COLOR BAND: | High temperature plastic, glass filled |
| OUTER CONDUCTOR: | Brass, nickel plating |
| DIELECTRICS: | Teflon |



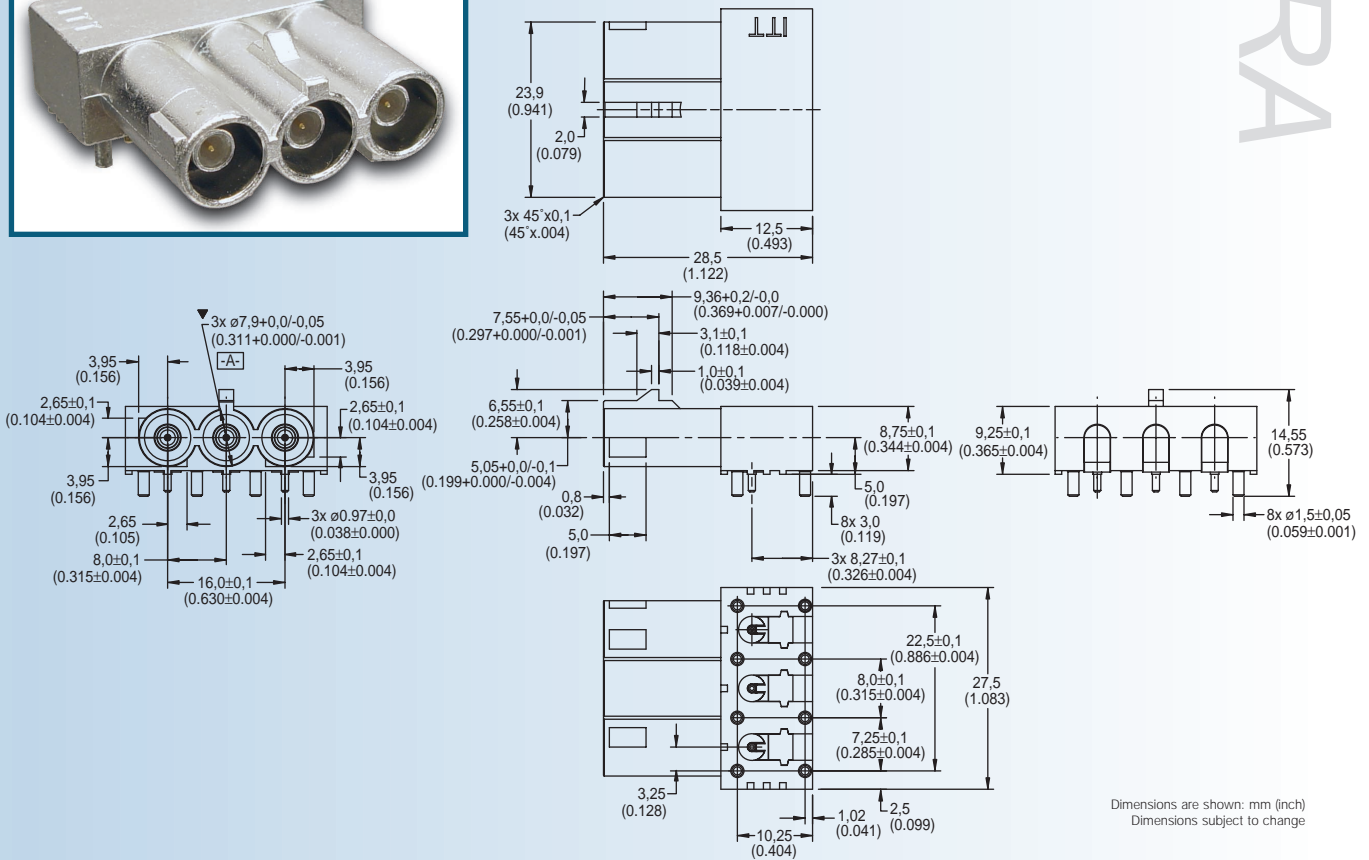
1 Way, Part Number: T11220-0010



FAKRA



3 Way, Part Number: T11220-0012



Dimensions are shown: mm (inch)
Dimensions subject to change