10 Jul 2000

PRECISION K (2.92mm) COAXIAL CONNECTORS

INTERFACE DIMENSIONS

Description

The K connector is a precision miniature 2.92mm air-interface connector that operates mode free to 40 GHz. It has a mechanically compatible interface that mates with SMA and 3.5mm (APC3.5) connectors see **Figure 1**. The K connector was originally introduced by Maury in 1974 as the MPC3 connector and re-introduced by Wiltron in 1984 as the K connector as it is known today.

Identification

K (2.92mm) connectors are visually identified with a "K" marked on the connectors as shown in **Figure 2**. This makes them visually distinguishable from 3.5mm connectors which look almost identical. They can be readily distinguished from SMA connectors because SMA connectors have a dielectric loaded interface and K (2.92mm) connectors have an air-interface.

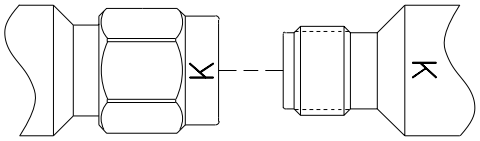

Figure 2: PrecisionK (2.92mm) Connector Marking

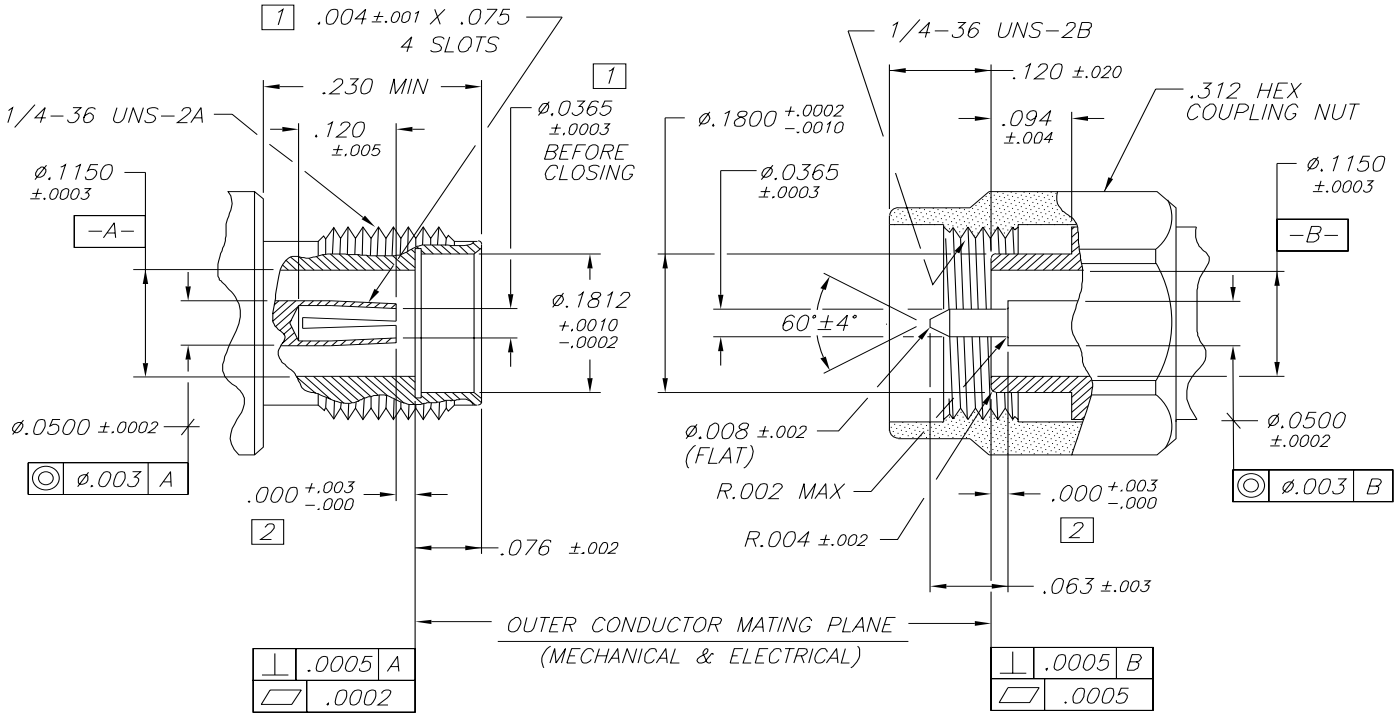

Figure 1: Female K (2.92mm) and Male K (2.92mm) Connector

1 The female center contact is designed to mate with a 0.0365 inch diameter, nominal, male contact pin. However, it is capable of making proper electrical contact with a 0.035 minimum to 0.037 maximum inch diameter male contact pin. Also, the diameter over the slots is larger to compensate for the slot reactance.

2 Maury's connector gage kit, models A034B, A034C and A034E, are designed to properly gage the contact pin locations of these connectors.

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