

2.92mm Adapters

IN-SERIES AND
BETWEEN-SERIES

2.92mm



Type N



7mm



Description

In-Series Description - Maury precision 2.92mm (K) in-series adapters are low VSWR and low-loss devices that operate from DC to 40 GHz. The models 8714A2, B2 and C2 offer all combinations for adapting and are ideal for using with precision measurement applications. These adapters are minimum length, phase matched and feature a square-flange body for ease of connecting and prevents rolling off tables. They are useful as “test port savers” when used with vector network analyzers such as the Keysight 8510, etc. The 8714D1 and 8714E1 are bulkhead and panel mount feedthru adapters respectively, designed for instrumentation applications.

Between-Series Description - The precision adapters in these model series are designed to allow devices with 2.92mm connectors to mate with devices and cables bearing 7mm or Type N connectors. When properly mated, they provide a low VSWR connection with low insertion loss and high repeatability. Made of highly durable materials, these adapters are ideal for use in laboratory and production environments where frequent connect/ disconnect cycles occur.

The 8725A1 and 8725B1 adapters are phase matched to each other so that they may be easily interchanged for network analyzer measurement of non-insertable devices.

2.92mm Connector Description

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. They comply with IEEE standard 287 general precision connector, instrument grade (GPC2.92).

2.92mm Adapters Available Models

MODEL	CONNECTORS		FREQUENCY RANGE (GHz) AND MAXIMUM VSWR	INSERTION LENGTH	
	SIDE A	SIDE B		INCHES	(CM)
8714A2 ¹	2.92mm female	2.92mm female	DC — 4.0 ≤ 1.05 4.0 — 20.0 ≤ 1.09 20.0 — 40.0 ≤ 1.13	0.650	(1.65)
8714B2 ¹	2.92mm male	2.92mm male		0.650	(1.65)
8714C2 ¹	2.92mm female	2.92mm male		0.650	(1.65)
8714D1 ²	2.92mm female	2.92mm female		0.850	(2.15)
8714E1 ²	2.92mm female	2.92mm female		0.850	(2.15)
7826A1 ³	1.85mm female	2.92mm female	DC — 4.0 ≤ 1.05 4.0 — 20.0 ≤ 1.08 20.0 — 40.0 ≤ 1.12	0.657	(1.669)
7826B1 ³	1.85mm female	2.92mm male		0.657	(1.669)
7826C1 ³	1.85mm male	2.92mm female		0.657	(1.669)
7826D1 ³	1.85mm male	2.92mm male		0.657	(1.669)
7926A ⁴	2.4mm female	2.92mm female	DC — 4.0 ≤ 1.05 4.0 — 20.0 ≤ 1.08 20.0 — 40.0 ≤ 1.14	0.650	(1.65)
7926B1 ⁴	2.4mm female	2.92mm male		0.650	(1.65)
7926C1 ⁴	2.4mm male	2.92mm female		0.650	(1.65)
7926D1 ⁴	2.4mm male	2.92mm male		0.650	(1.65)
8725A1 ⁵	2.92mm female	7mm	DC — 4.0 ≤ 1.05 4.0 — 12.0 ≤ 1.07 12.0 — 18.0 ≤ 1.10	1.670	(4.24)
8725B1 ⁵	2.92mm male	7mm		1.670	(4.24)
8723A ⁶	2.92mm female	Type N female	DC — 4.0 ≤ 1.07 4.0 — 12.0 ≤ 1.10 12.0 — 18.0 ≤ 1.17	1.614	(4.099)
8723B ⁷	2.92mm female	Type N male		1.914	(5.014)
8723C ⁶	2.92mm male	Type N female		1.614	(4.099)
8723D ⁷	2.92mm male	Type N male		1.914	(5.014)

¹⁻⁷ References to families that are phase matched.