

3.5mm Between-Series Panel Mount Adapters

Models 8022N/P, 8023P1/P2, 8023T1/T2, 8009D/E/E1

Description

The 8022N/P and 8023P/T models are precision panel mount adapters designed for use in OEM applications, special test fixturing, and custom instrumentation designs. These models adapt 3.5mm female or male connectors to 7mm or type N female or male 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 8009D/E/E1 are NMD3.5mm panel mount adapters designed for use in applications where the highest repeatability is critical. They adapt precision 3.5mm connectors to NMD3.5mm male connectors, and are mateable to non-NMD SMA, 2.92mm (K) and 3.5mm connectors via internal threads. The center conductors are supported by two dielectric beads for exceptional stability and long life. These models are rated for operation from DC to 26.5 GHz.

3.5mm Connector Description

Maury precision 3.5mm connectors on these adapters are miniature, instrument grade, air-interface connectors that are rated for operation from DC to 34 GHz. They comply with IEEE standard 287 for instrument grade general precision connectors (GPC3.5).

7mm Connector Description

Maury precision 7mm connectors are miniature, instrument grade, air-interface connectors rated for operation from DC to 18 GHz. They comply with IEEE standard 287 for instrument grade general precision connectors (GPC7). They are normally made with gold-plated beryllium copper bodies and have a six-slot heat treated gold-plated beryllium copper center conductor contact for improved repeatability and durability. See Maury data sheet 5E-060 for interface dimensions.

Type N Connector Description

The precision type N connectors on these adapters are miniature, instrument grade, air-interface connectors that are rated for operation from DC to 18 GHz. They comply with IEEE standard 287 for instrument grade general precision connectors (GPC Type N). The connectors have stainless steel bodies with heat treated gold-plated beryllium copper contacts.

Available Models

MODEL	ADAPTS		FREQUENCY RANGE (GHz) AND MAXIMUM VSWR				NOMINAL IMPEDANCE	INSERTION LENGTH	
	SIDE A	SIDE B						INCHES	(CM)
8022N	3.5mm female	7mm	DC	—	4.0	≤ 1.04	50 ohm	1.670	(4.24)
8022P	3.5mm male	7mm	4.0	—	18.0	≤ 1.08	50 ohm	1.670	(4.24)
8023P1	3.5mm male	Type N female	DC	—	4.0	≤ 1.065	50 ohm	1.611	(4.09)
8023P2	3.5mm male	Type N male	4.0	—	18.0	≤ 1.13	50 ohm	1.972	(5.01)
8023T1	3.5mm female	Type N female	DC	—	4.0	≤ 1.065	50 ohm	1.615	(4.10)
8023T2	3.5mm female	Type N male	4.0	—	18.0	≤ 1.13	50 ohm	1.976	(5.02)
8009D	3.5mm male	NMD3.5mm male	DC	—	18.0	≤ 1.06	50 ohm	1.455	(3.69)
8009E	3.5mm male	NMD3.5mm male	18.0	—	26.5	≤ 1.10	50 ohm	1.455	(3.69)
8009E1	3.5mm male	NMD3.5mm male					50 ohm	1.455	(3.69)

Key Literature: Maury data sheets 2B-022C, 2B-017A and 2B-034B.

