

NMD1.85mm Test Port Adapters

7809 Series

Features

- ▶ Low VSWR
- ▶ DC to 67 GHz (Usable to 70 GHz)
- ▶ Protects VNA Test Ports
- ▶ Ruggedized for Long Life

Description

Maury's 7809 series NMD1.85mm adapters are precision, low VSWR adapters designed to connect directly to the male 1.85mm NMD-style test ports on certain Agilent test sets and VNA models (including those in the PNA series). They are fully compatible with the VNA test ports, and adapt to precision 1.85mm, 2.4mm, 2.92mm, 3.5mm, 7mm, and type N connectors. Maury test port adapters provide the best possible connection between the VNA and other precision cables and devices. Their rugged construction provides for long life and highly stable, highly repeatable connections. The 7809A1/A2 and 7809K models also act as test port savers, by absorbing the wear and tear that would otherwise affect the test port; preventing costly repairs and eliminating downtime.

Connector Description

The NMD1.85mm female connectors on Maury 7809 series adapters are miniature, instrument grade, air-interface connectors. Rated for operate up to 67 GHz, they are useable up to 70 GHz. They comply with IEEE standard 287 general precision connector, instrument grade GPC1.85. For interface specifications please refer to Maury data sheet 5E-089.

Available Models



MODEL	CONNECTORS		FREQUENCY RANGE (GHz) AND MAXIMUM VSWR	NOMINAL IMPEDANCE	INSERTION LENGTH	
	SIDE A	SIDE B			INCHES	(CM)
7809A1	NMD1.85mm female ¹	1.85mm female ³	DC — 26.5 ≤ 1.10	50 ohm	0.993	(2.52)
7809A2	NMD1.85mm female ¹	1.85mm male ³	26.5 — 40.0 ≤ 1.15	50 ohm	0.993	(2.52)
7809K	NMD1.85mm female ¹	NMD1.85mm male ¹	40.0 — 67.0 ≤ 1.20	50 ohm	1.133	(2.88)
7809G	NMD1.85mm female ¹	NMD2.4mm male ²	DC — 26.5 ≤ 1.10	50 ohm	1.142	(2.90)
7809H	NMD2.4mm female ²	NMD1.85mm male ¹	26.5 — 40.0 ≤ 1.15	50 ohm	1.317	(3.35)
			40.0 — 50.0 ≤ 1.20			
7809F1	NMD1.85mm female ¹	2.92mm female ⁵	DC — 20.0 ≤ 1.10	50 ohm	1.072	(2.72)
7809F2	NMD1.85mm female ¹	2.92mm male ⁵	20.0 — 40.0 ≤ 1.16	50 ohm	1.072	(2.72)
7809B1	NMD1.85mm female ¹	3.5mm female ⁶	DC — 10.0 ≤ 1.06	50 ohm	1.085	(2.76)
7809B2	NMD1.85mm female ¹	3.5mm male ⁶	10.0 — 20.0 ≤ 1.10	50 ohm	1.085	(2.76)
			20.0 — 34.0 ≤ 1.12			
7809C	NMD1.85mm female ¹	7mm ⁷	DC — 4.0 ≤ 1.05	50 ohm	1.206	(0.47)
			4.0 — 12.0 ≤ 1.07			
			12.0 — 18.0 ≤ 1.10			
7809D1	NMD1.85mm female ¹	Type N female ⁸	DC — 4.0 ≤ 1.08	50 ohm	1.145	(2.91)
7809D2	NMD1.85mm female ¹	Type N male ⁸	4.0 — 12.0 ≤ 1.12	50 ohm	1.504	(3.82)
			12.0 — 18.0 ≤ 1.14			

¹ NMD1.85mm per Maury data sheet 5E-085.

² NMD2.4mm per Maury data sheet 5E-083.

³ Precision 1.85mm per Maury data sheet 5E-089.

⁴ Precision 2.4mm per Maury data sheet 5E-064.

⁵ Precision 2.92mm (K) per Maury data sheet 5E-063.

⁶ Precision 3.5mm per Maury data sheet 5E-062.

⁷ Precision 7mm per Maury data sheet 5E-060.

⁸ Precision type N per Maury data sheet 5E-049.

📄 Key Literature: Maury data sheet 2B-074..