Type N In-Series Adapters (50 ohm) – Phase Matched

8828 Series

Description

The 8828 precision type N in-series adapters feature extremely low VSWR with low insertion loss, and are phase matched (having the same electrical insertion length) so they may be readily interchanged in network analyzer measurement applications. They are constructed with aluminum bodies. Connector bodies are made from stainless steel, and the center conductors are made from gold plated, heat treated beryllium

Connector Description

The Maury type N connectors on these adapters are precision, 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 (GPC Type N), and meet most applicable interface requirements of MIL-C-39012/1 (see footnote 2, in Figure 1 below) and they meet all applicable interface requirements of MIL-C-39012/2. The connectors will mate properly with MIL-C-71, MIL-C-39012, MIL-T-81490 and most other semi-precision type N connectors. The male connectors are provided with a 3/4-inch hex coupling nut so they can be properly torqued to 12 in. lbs. The connectors have stainless steel bodies with heat treated gold-plated beryllium copper contacts.

Specifications

Frequency Range . . . . . DC – 18 GHz

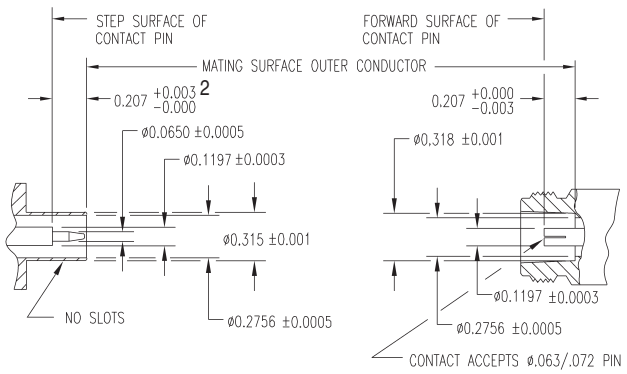
Maximum VSWR . . . . . DC – 4.0 GHz, 1.03 (<1.02 typical)
4.0 – 10.0 GHz, 1.05 (<1.03 typical)
10.0 – 18.0 GHz, 1.09 (<1.06 typical)

Impedance . . . . . 50 ohm

Insertion Loss . . . . . 0.08 dB + 0.01 dB$\sqrt{f}$ (GHz)

Interface Dimensions – Inches

Figure 1 – Contact Pin Location



2 This dimension is .210 minimum on MIL-C-39012/1.

Available Models

MODEL	ADAPTS SIDE A	ADAPTS SIDE B	INSERTION LENGTH INCHES	INSERTION LENGTH (CM)
8828A	Type N female [1]	Type N female [1]	2.50	(6.35)
8828B	Type N male [1]	Type N male [1]	2.50	(6.35)
8828C	Type N female [1]	Type N male [1]	2.50	(6.35)

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

Dimensions – Inches

Figure 2 – 8828A

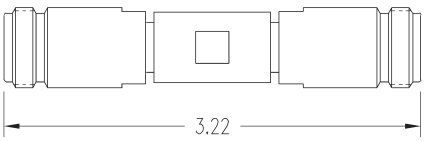


Figure 3 – 8828B

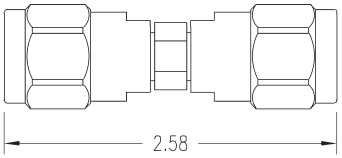
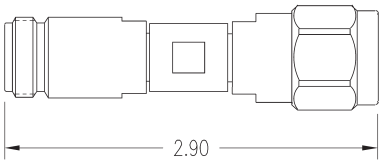


Figure 4 – 8828C



Key Literature: Maury data sheet 2B-029.