

# Precision Fixed Terminations

Type N 75 ohm (8883 series)

BNC 75 ohm (8583 series)

## Features

- ▶ Low VSWR
- ▶ DC to 2 GHz

## Description

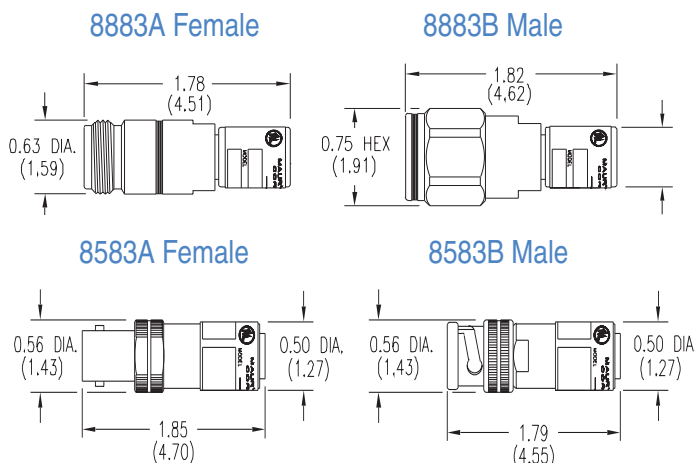
The 8883 series and 8583 series fixed terminations are precision, low VSWR, 75 ohm terminations equipped with type N and BNC connectors, respectively. These terminations are suited to a wide variety of general purpose and precision laboratory applications; however, their primary usage is for 75 ohm reference  $Z_0$  calibration of network analyzers at frequencies up to 2 GHz. All Maury 75 ohm components are identifiable by a black ring encircling the body of the component. 75 ohm connectors should never be mated to their 50 ohm counterparts as doing so could result in damage to the 75 ohm female connector and/or poor, or erratic electrical performance.

## Connector Description

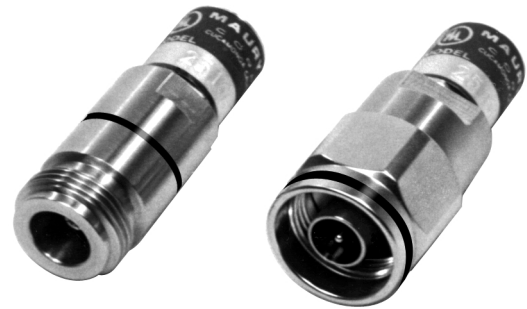
The type N 75 ohm connectors on the components in the 8883 series are a precision version of type N 75 ohm connectors, developed by Maury, which meets all applicable requirements of IEC169-16. They exhibit extremely low VSWR, and although specified to 2.0 GHz, they can be used at much higher frequencies. The male connectors are provided with a 3/4" hex coupling nut so the junctions can be properly torqued to 12 in. lbs.

The BNC connectors on the 8583 series terminations are precision miniature coaxial connectors featuring a quick disconnect bayonet locking coupling mechanism. The connector body is fabricated from solid brass finished with nickle plating. The center conductor is beryllium-plated copper, supported by teflon beads. They are rugged, lightweight connectors that are negligably affected by temperature and humidity.

## Dimensions – Inches (cm)



Key Literature: Maury data sheet 2Z-036



8883A

8883B



8583A

8583B

## Specifications

Model 8883A – Female type N 75 ohm fixed termination

Model 8883B – Male type N 75 ohm fixed termination

Frequency Range . . . . . DC – 2.0 GHz

Maximum VSWR . . . . . 1.01

Power Rating . . . . . 1 watt CW

Nominal Impedance . . . . . 75 ohm

Connectors:

8883A . . . . . Precision 75 ohm type N female<sup>1</sup>

8883B . . . . . Precision 75 ohm type N male<sup>1</sup>

Size . . . . . (see Dimensions)

Model 8583A – Female BNC 75 ohm fixed termination

Model 8583B – Male BNC 75 ohm fixed termination

Frequency Range . . . . . DC – 2.0 GHz

Maximum VSWR . . . . . 1.02

Power Rating . . . . . 1 watt CW

Nominal Impedance . . . . . 75 ohm

Connectors:

8583A . . . . . Precision 75 ohm BNC female

8583B . . . . . Precision 75 ohm BNC male

Size . . . . . (see Dimensions)