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Agilent Technologies 11716A/C Interconnection Kit

Operating Note

11716-90004

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General Information

This operating note contains information for the 11716A and 11716C Interconnection Kits. Included in the note is a list of parts with part numbers and instructions for using the kit.

Description

The 11716A and 11716C Interconnection Kit provides the necessary parts to connect various attenuators in series. See Table 1 for possible combinations. The 11716A interconnection ridged cable has type-N connectors, and the 11716C has SMA connectors.

- Overall height with attenuators is 3.235 inches.
- Typical return loss of the cable is ≤20 dB.

Interconnection Kit Matrix

Table 1 Interconnection Kit Parts

	8494	8495	8496
8494	Yes	Yes	Yes
8495	Yes	No	Yes
8496	Yes	Yes	Yes

Items Supplied

Parts included in the interconnection kits are listed in Table 2.

Table 2 Interconnection Kit Parts

Description	Qty	Part Number
Combining bracket	1	11716-00001
Base	1	11716-00002
Interconnect rigid cable		
Type-N male connectors 11716A	1	11716-20001
SMA connectors 11716C	1	11716-20003
Felt feet	4	0403-0309
Screw 4-40 x 7.9 mm (0.312 inch)	4	2200-0105
Screw 4-40 x 9.5 mm (0.375 inch)	2	2220-0769

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Installation

Initial Inspection

Inspect the shipping container for damage. Inspect the kit for any mechanical damage incurred in transit. If the shipping container or cushioning material is damaged, it should be kept until the contents of the shipment have been checked for completeness and the kit has been checked mechanically and electrically.

If the contents of this shipment are incomplete, or if there is mechanical damage or defect, notify the nearest Agilent Technologies Office. If the shipping container is damaged, or the cushioning material shows signs of stress, notify the carrier as well as the Agilent Technologies office. At Agilent's option, the office will arrange for repair or replacement without waiting for claim settlement.

Installing Interconnection Kit

CAUTION

Do not allow connectors on the Interconnection Kit to bear torque or support weight.

To connect two attenuators using the kit:

1. Remove the pedestal bases of both attenuators.
2. Select the attenuator to be located on top and connect it to the outer bracket surface that has the three small holes. Use two of the 4-40 x 7.9 mm (0.312 inch) screws supplied.

NOTE

If one of the two attenuators is an 8495 70 dB attenuator, this physically shorter unit should be selected for the top location.

3. Fasten the remaining attenuator to the inside of the bracket, with or without the sheet metal base. The screws should pass through the two elongated holes. Do not tighten these screws at this time.

NOTE

The 4-40 x 9.5 mm (0.375 inch) screws are for fastening to a plastic attenuator pedestal base. The 4-40 x 7.9 mm (0.312 inch) are for fastening to the bracket.

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4. Connect the rigid cable between the two attenuators. The lower attenuator should be adjusted laterally so that the rigid cable connects easily without strain.
5. Firmly tighten the two screws holding the lower attenuator to the bracket.
6. If no sheet metal base is being used, the adhesive-backed felt feet that are supplied may be attached to the underside of the bracket to prevent marring the surface on which the combined attenuators are set. Figure 1 shows how the interconnection kit is typically used.
7. When using the sheet metal base, use the .375 long screws to connect the attenuator bracket to the sheet metal base.

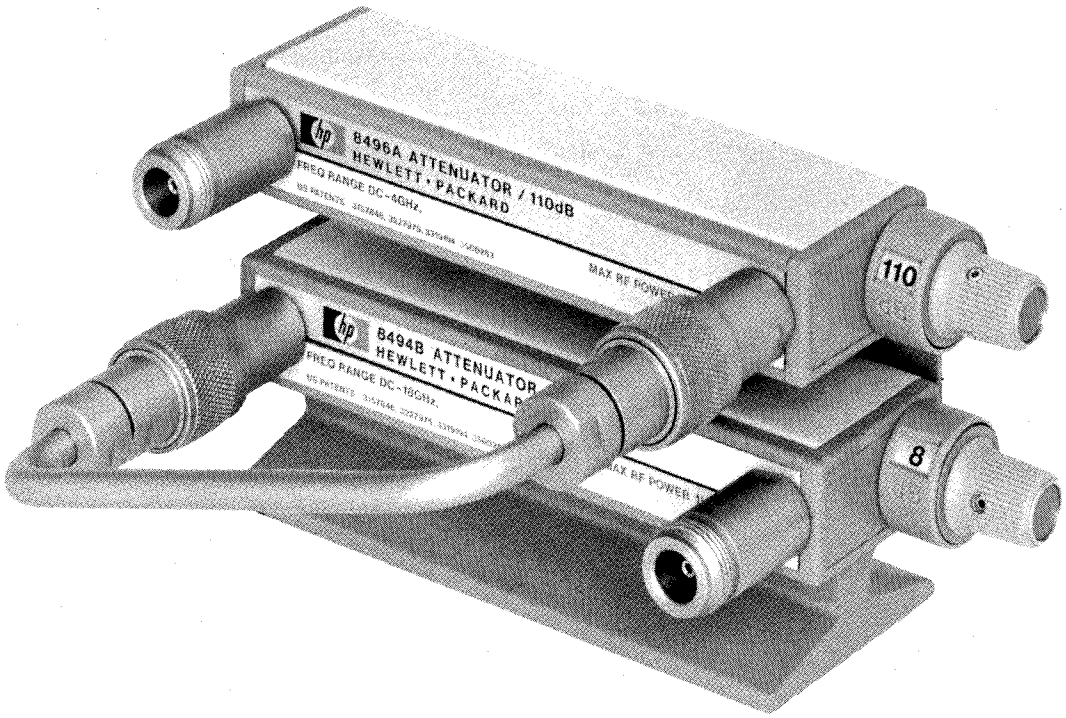

Figure 1 Typical Installation