OPERATING INSTRUCTIONS

TYPE 874-G

FIXED ATTENUATORS

Nonlocking types 874-G3, -G6, -G10, -G14, -G20
Locking types 874-G3L, -G6L, -G10L, -G20L

DESCRIPTION. The Type 874-G Fixed Attenuators are single-section, T-type resistance pads which can be mounted in a coaxial line to obtain a low VSWR over a frequency range from dc to 4 Gc/s. The resistance element consists of a disk resistor and two cylindrical resistors soldered together into a single unit. The VSWR and attenuation characteristics as functions of frequency are shown in Figures 1 and 2, respectively.

The Type 874-GL Fixed Attenuators are identical to the Type 874-G except that they employ Type 874-BL Locking Connectors. These connectors are compatible with both locking and nonlocking Type 874 Connectors. When two locking connectors are mated with each other, a firm mechanical coupling is obtained. Also the shielding is improved significantly over that of the standard connectors, and, in general, the leakage is reduced by at least 50 dB. The quick-disconnect feature of the standard Type 874-Coaxial Connectors is retained in the locking type if the locking nut is not engaged. However, in this case, the shielding is less effective.

In terms of VSWR, a locking connector mated with a nonlocking connector is equivalent to two nonlocking connectors mated. The VSWR characteristics of the basic Type 874-BL Locking Connector are similar to those of the basic Type 874-B (nonlocking) Connector, and both are described in the General Radio Catalog.

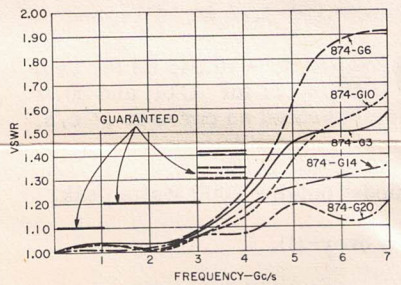

Figure 1. Typical VSWR.

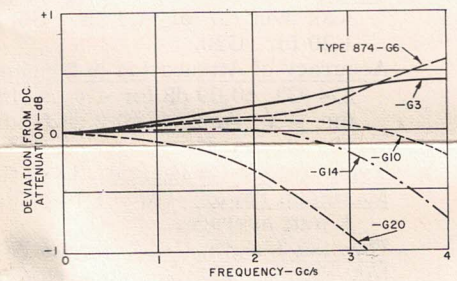

Figure 2. Attenuation Characteristic.