

Figure 7. VSWR introduced in a flat line by the insertion of a Type 874-GAL Adjustable Attenuator.

SPECIFICATIONS

Calibrated Range: 120 db (relative attenuation) with input line terminated in 50 ohms; 129 db with input line terminated in adjustable stub to minimize the electric field at the coupling point (scale reads -9 to 120 db).

Insertion loss (from input connector to end of output cable at 1 Gc, when signal source impedance is 50 ohms):

With input line terminated in 50 ohms, and scale set at 0 db, 33 ± 2 db; set at -9 db, 18 ± 2 db (settings below 0 are not accurate).

With input line terminated in adjustable stub (which extends the range over which the calibration is accurate to the - 9 db scale setting), $20\,\pm\,2$ db minimum.

(Insertion loss is approximately inversely proportional to frequency up to 1 Gc.)

Insertion Loss Directly Through Tee: Negligible.

Accuracy of Attenuation:

Stub-terminated input, $\pm\,(0.01$ times difference in attenuation reading +0.2) db, direct reading.

50-ohm terminated input, $\pm (0.015~\rm times~difference$ in attenuation reading + 0.2) db, when corrected.

VSWR Introduced into Line: Less than 1.03 at 1 Gc; less than 1.12 between 1 and 4 Gc.

VSWR of Output: Less than 4 at 1 Gc, less than 5 to 4 Gc.

Maximum Power: Input power inversely proportional to square root of frequency, and should not exceed 300 watts at 1 Gc. Output power should not exceed ½ watt.

Frequency Range: 100 Mc to 4 Gc.

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