

ADDENDA

1. G. A. Deschamps, "New Chart for the Solution of Transmission-Line and Polarization Problems," Trans. IRE Professional Group on Microwave Theory and Techniques, vol. 1, no. 1, pp. 5-13; March, 1953:

In his article, "Die Anwendung der Riemannschen Zahlenkugel und ihrer Projectionen in der Wechselstromtechnik," (Radiowelt, vol. 1, pp. 23-26; October, 1946), F. Steiner obtained the representation of impedances by points on a sphere by the use of stereographic projection of the complex numbers plane. He then considered the orthogonal projection of this sphere on an equatorial plane which gives, in effect, the projective chart. An application of that chart to the determination of impedance by the 3-probes method, anticipating part of the results in the section titled, "Problems on Power," is also described.

2. M. C. Harp, M. H. Kebby, and E. J. Rudisuhle, "Application of Compandors to FM Radio Systems with Frequency Division Multiplexing," Ibid., vol. 2, no. 1, pp. 36-40; April, 1954:

In the printing of the above article, the illustrations numbered 2-6 were inadvertently omitted. We are therefore reproducing them on the following pages to rectify the omission.

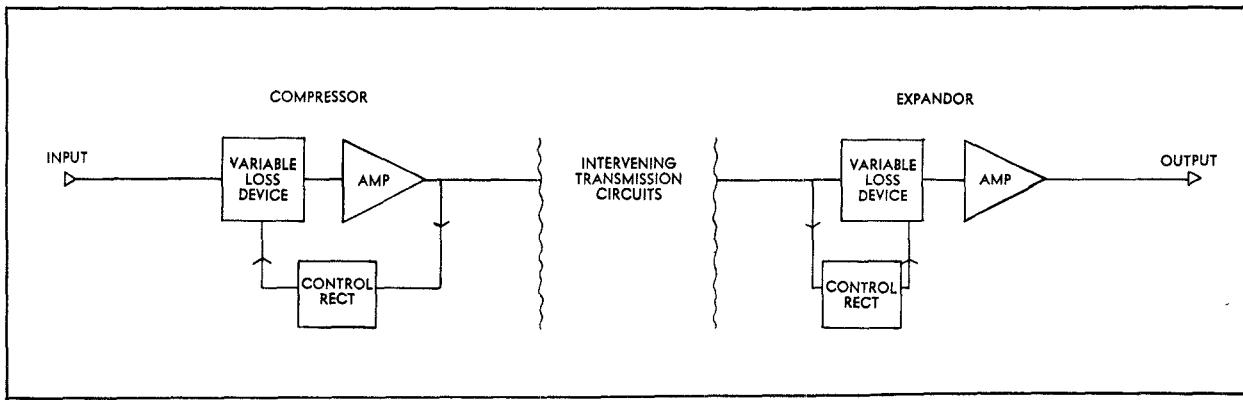


Fig. 2 - Block diagram of type 5090 A compandor. Both compressor and expandor consist of a variable loss device, an amplifier and a control rectifier.

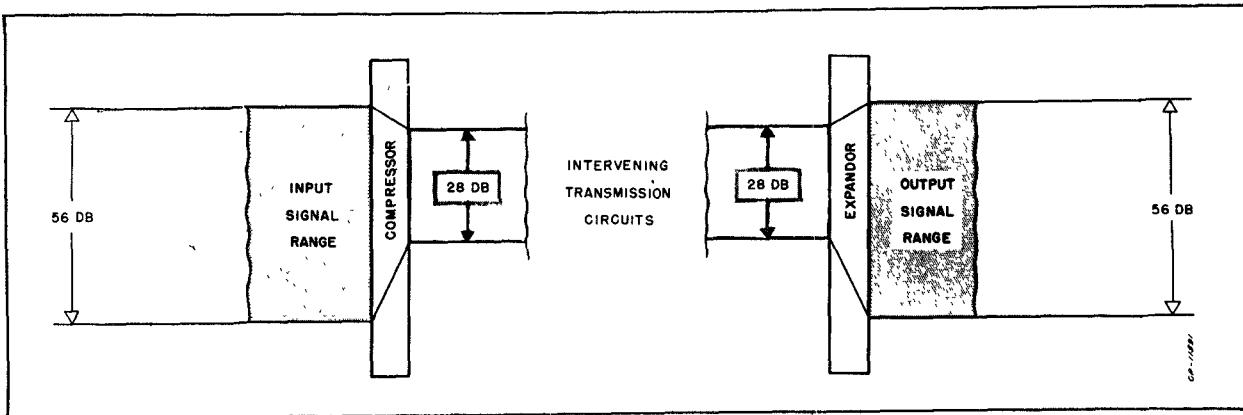


Fig. 3 - Intensity range of input signals is reduced by the compressor and restored to the original range by the expandor.

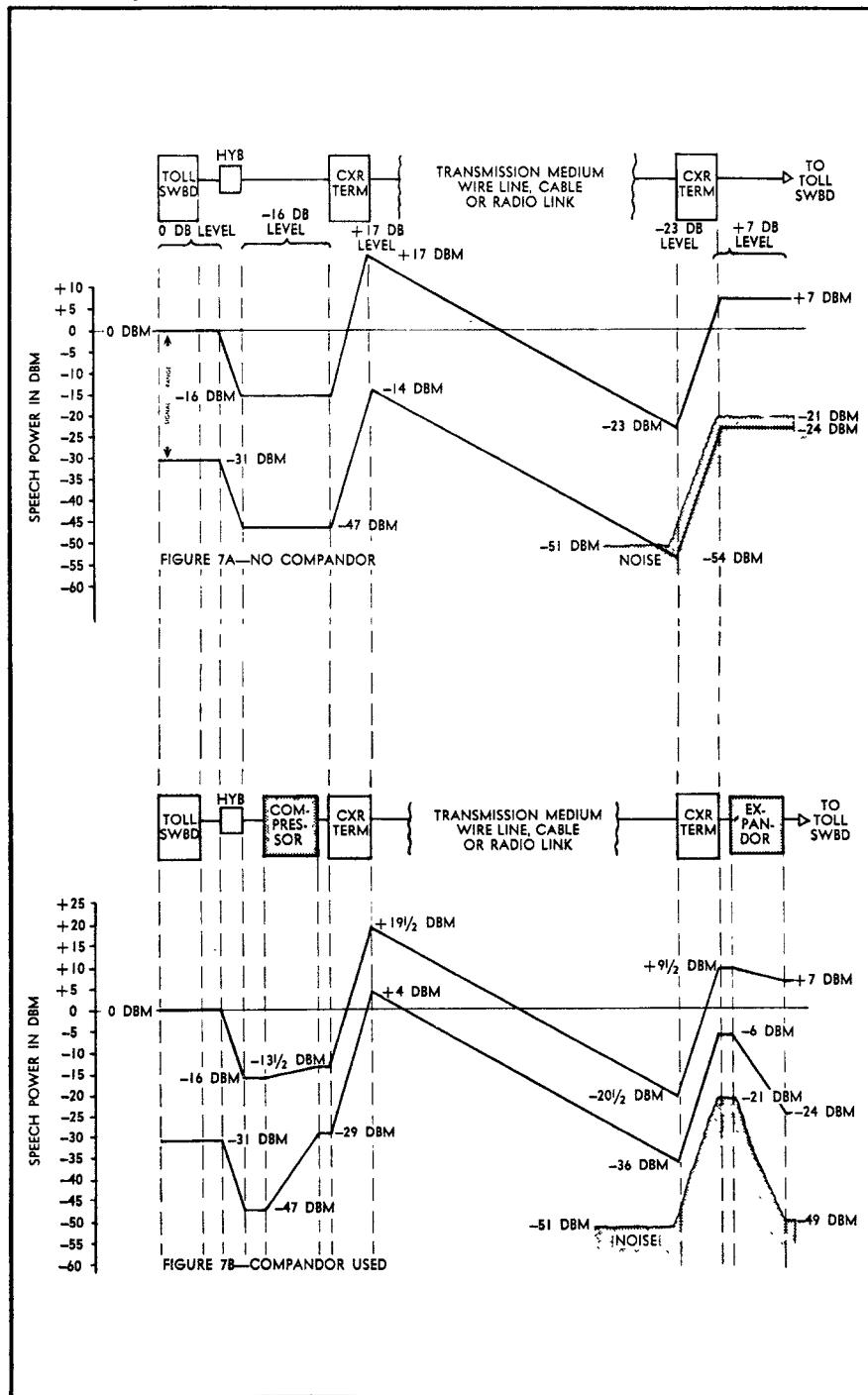


Fig. 4 - An illustration of the manner in which a compandor permits operation of a carrier channel over a circuit otherwise unsuitable because of noise.

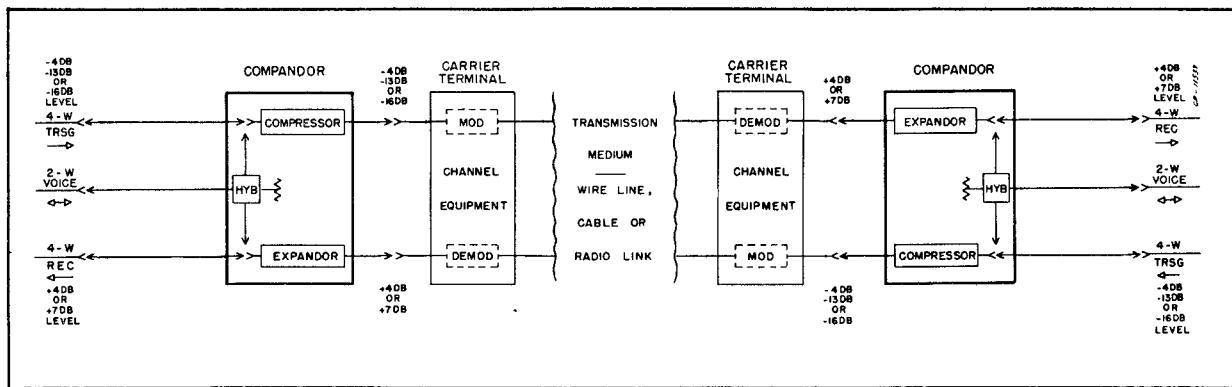


Fig. 5 - Typical compandor application to a carrier telephone channel.

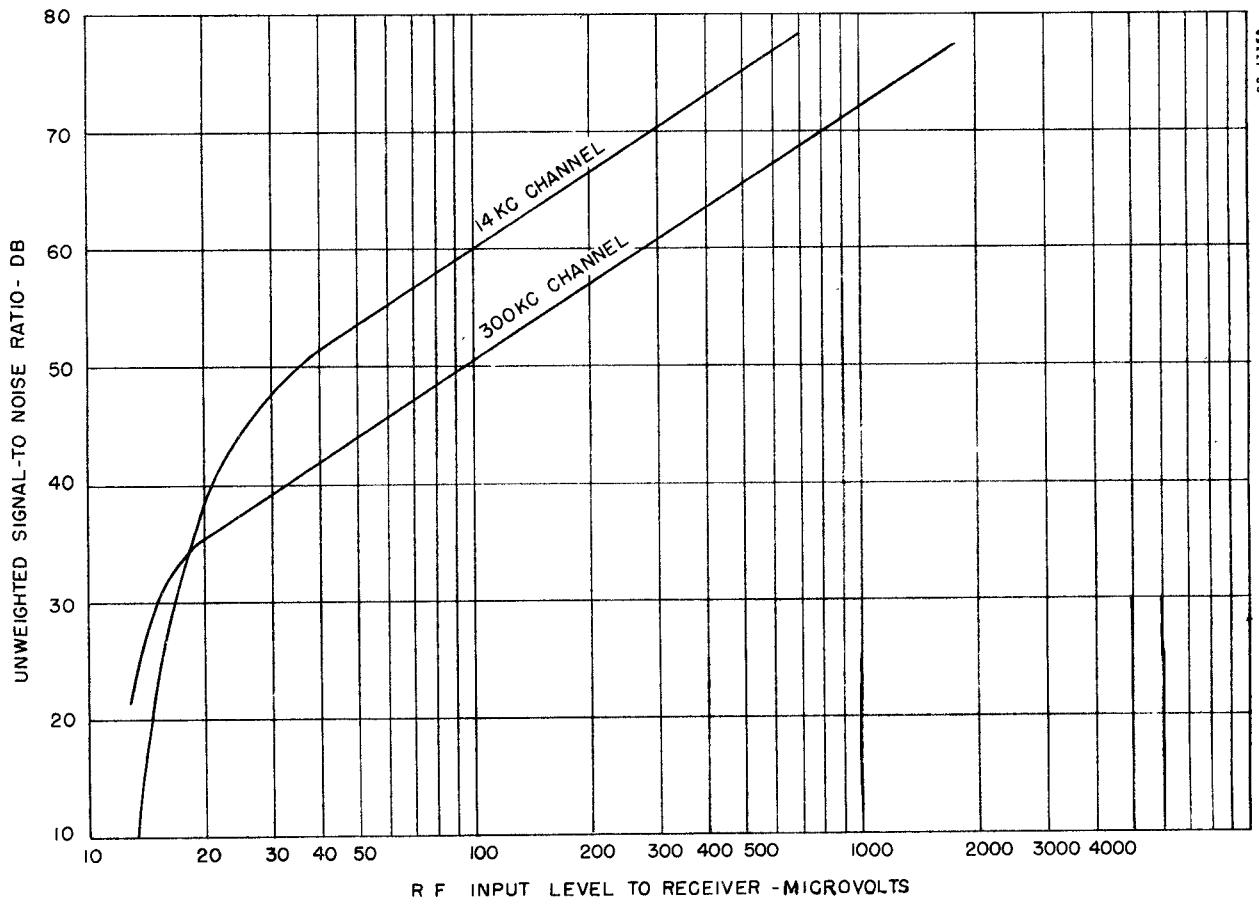


Fig. 6 - Relationship between signal-to-thermal noise ratio and receiver rf signal strength.