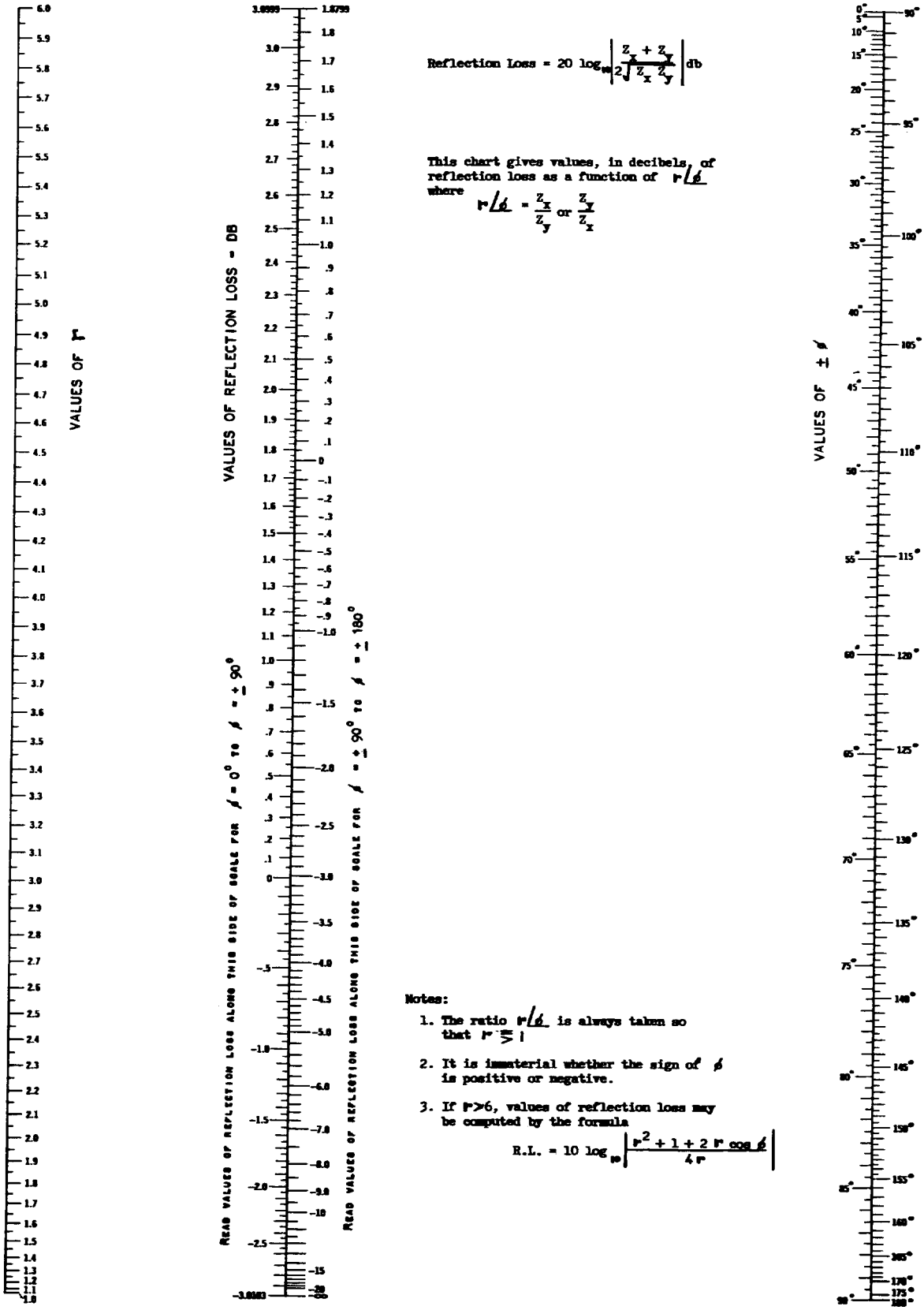
ALIGNMENT CHART FOR REFLECTION LOSSES - DECIBELS



Reflection Loss = $20 \log_{10} \left| 2 \frac{Z_x + Z_y}{\sqrt{Z_x Z_y}} \right|$ db

This chart gives values, in decibels, of reflection loss as a function of $r\angle\phi$ where

$$r\angle\phi = \frac{Z_x}{Z_y} \text{ or } \frac{Z_y}{Z_x}$$

Notes:

1. The ratio $r\angle\phi$ is always taken so that $r \geq 1$
2. It is immaterial whether the sign of ϕ is positive or negative.
3. If $r > 6$, values of reflection loss may be computed by the formula

$$\text{R.L.} = 10 \log_{10} \left| \frac{r^2 + 1 + 2r \cos\phi}{4r} \right|$$

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