



# APPLICATIONS DATA

## The Quad/Eight Gate

NS-120



The decay characteristic of the NS-120 release time may be altered to allow a slower attenuation decay rate. (see above graph)

"0" on the attenuation scale represents an arbitrary threshold setting on the "SEN" front panel control. The instantaneous gating effect will happen when signal level falls below this threshold setting. The graph indicates a family of decay curves which can be generated by the addition of a small value external capacitor to the connector pins. (see connector diagram) The curves shown represent the decay characteristics of the following value capacitors:

<u>CURVE</u>	<u>VALUE</u>
A	Standard (10uf@35V)
B	10uf
C	20uf
D	47uf
E	100uf

It should be noted that this decay envelope is independent of the release time control. The above curves have been generated with the release time set at fastest release. (.03 sec. @ 90% full attn. value)

The capacitor should be of the solid tantalum variety with a minimum DCWV rating of 15V. (note the polarity of the circuit before powering)

Should a variable decay be desired for applications requiring frequent readjustment of the decay envelope, a multi-pole switch may be attached and wired to a remote station. The remote switch could provide many pre-selected optimum capacitor values.

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