

Technical Report # 10

From: The Crawford Hill VHF Club

Date: December, 1971

Subject: UHF POWER DIVIDERS

Presented in this report are two 50 ohm 4-way power dividers of the reactive type composed entirely of standard type-N fittings. One of the dividers is for 432 mc/s and the other for 1296 mc/s. These power dividers are particularly useful for feeding 4 identical antennas in an in-phase array.

Below are shown the design of each divider and the required type-N fittings for each. The curves are the measured VSWR at the common port for each divider. Note that each divider has a natural best match frequency which is slightly higher than the desired operating frequency.

The 432 mc/s divider was developed by W2CCY and the 1296 mc/s divider by W2CQH.

