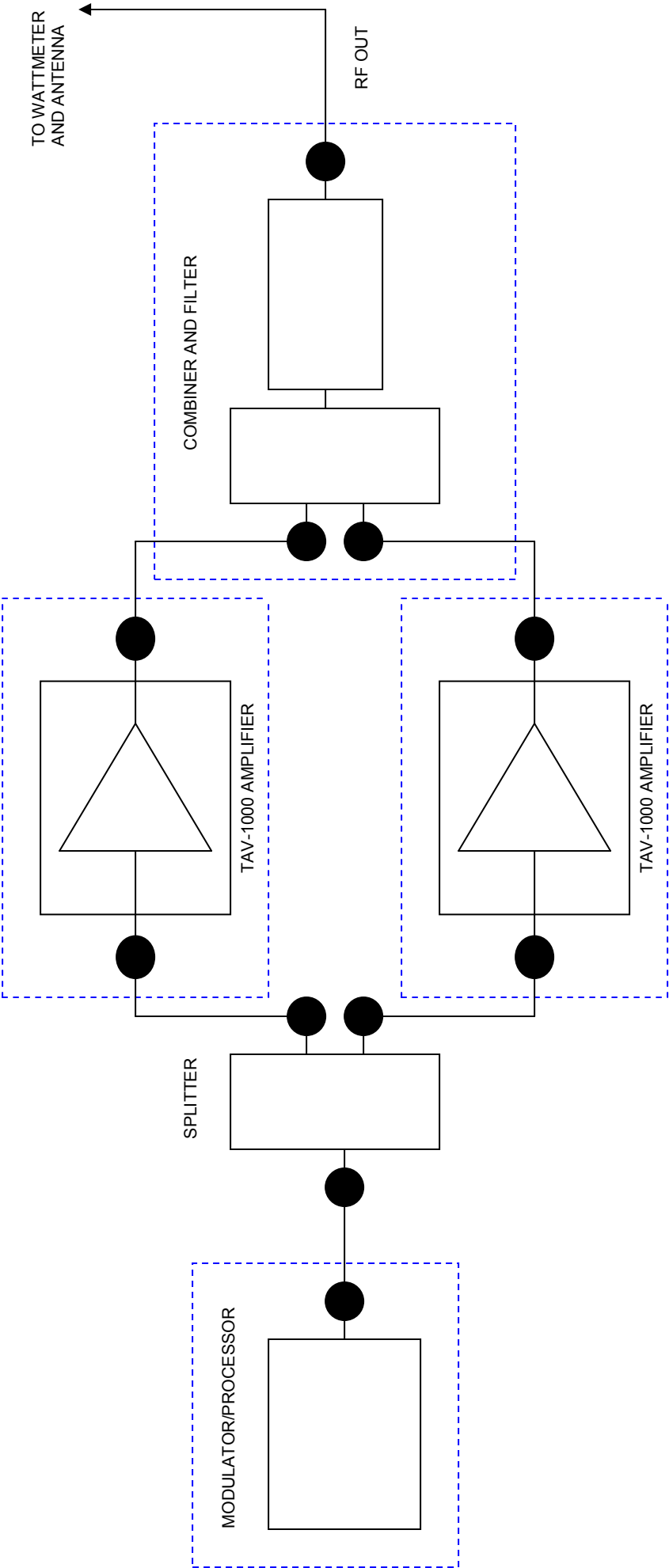


June 29, 2007

**Block Diagram Statement:
TAV-2000L**

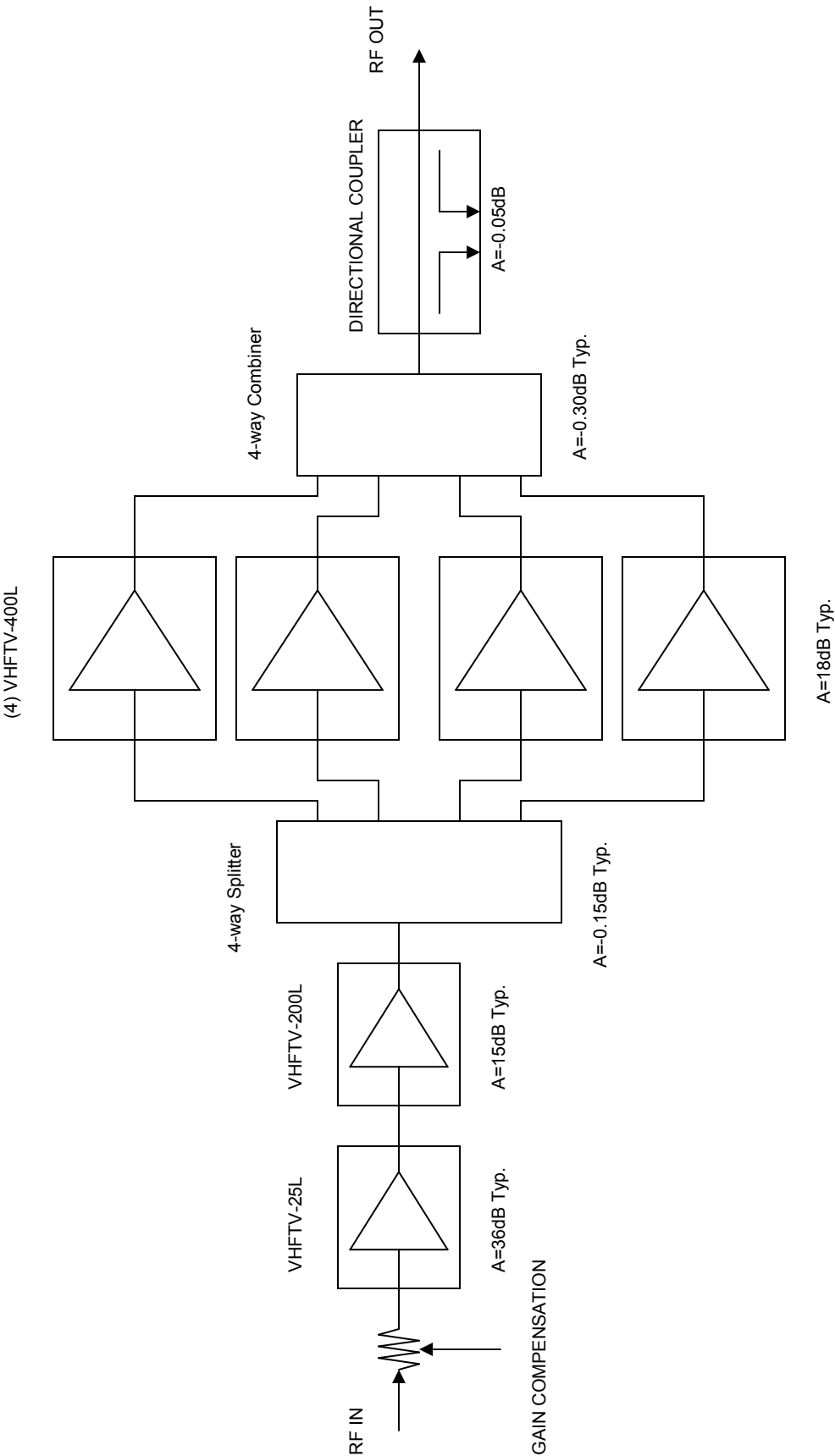
The amplification of the TAV-2000L is comprised of (2) TAV-1000L 1000-watt power amplifiers. Firstly, the output of the modulator or processor gets split into (2) RF signals of equal amplitude. Each output of the 2-way power divider is then fed into a TAV-1000L Power Amplifier. Finally, the outputs of each TAV-1000L are combined to generate 2000-watts of peak visual power in addition to an aural carrier.

TAV-2000L BLOCK DIAGRAM



Inside each 1000-watt power amplifier, is a VHFTV-25L and a VHFTV-200L driver stages, the signal gets split into (2) signals for final amplification using a 4-way Richardson power divider. The final amplification stage is comprised of (4) VHFTV-400L final amplifiers. The outputs of the (4) final amplifier pallets are combined with a 4-way Wilkinson combiner and pass through a dual directional coupler for protection and monitoring purposes, as illustrated in the following TAV-1000L block diagram.

TAV-1000L BLOCK DIAGRAM



After amplification, the signal exits the power amplifier enclosure and goes into the combiner/filter enclosure, where the signals from each 1000-watt amplifier are combined. After combining, the amplified signals are filtered with a bandpass filter and monitored again with another directional coupler before heading out to an antenna for broadcast, as depicted in the following combiner/filter block diagram.

COMBINER/FILTER BOX BLOCK DIAGRAM

