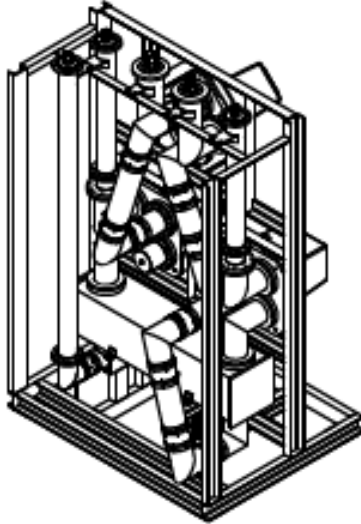


50 kW FM Switching Combiner

50 kW Switching Combiner System for FM
Any Single FM Channel (88.1 to 107.9 MHz)
2 x 25 kW average power



The FM Switching Combiner consists of (1) Coaxial Hybrid used as a 2-way power combiner with (3) Motorized Coaxial Switches to route the transmitter signals to the combiner, to a test load port or to the system output. See the simplified block diagram below.

The system is constructed with 3-1/8 inch and 4-1/16-inch coaxial Line and resides in an aluminum floor-mount base frame with vertical input and output connections. Reject and test loads are not included.

The two input signals from the transmitters must be in quadrature.

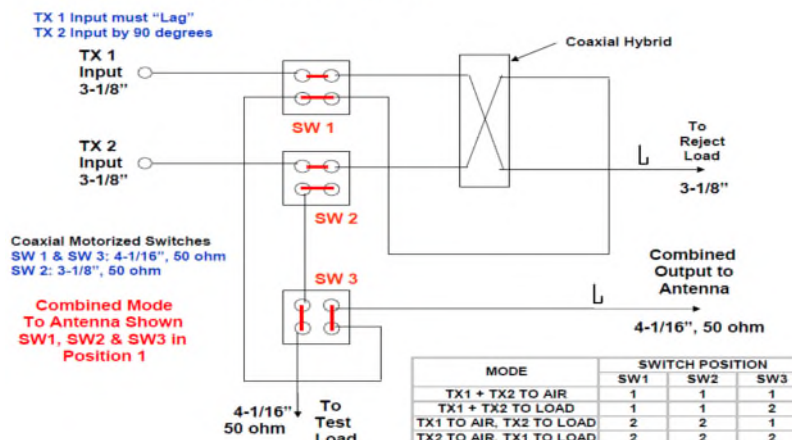
2 x 25 kW avg. FM Switching Combiner System, includes:

- (1) 3 dB Coaxial Hybrid Coupler
- (3) Motorized Coaxial Switch, 4-1/16 inch
- Interconnect components between above items
- Floor-mount base frame

Specifications:

Inputs: 3-1/8-inch, 50-ohm EIA flanged
 Reject Load Port: 3-1/8-inch, 50-ohm EIA flanged
 Combined Output: 4-1/16-inch, 50-ohm flanged
 Test Load Port: 4-1/16-inch, 50-ohm flanged
 TX 1 input signal must "lag" TX 2 input signal by 90 degrees
 Switch AC Supply: 120 or 240 VAC, specify with order
 Switch Control: 12 VDC or 24 VDC specify with order
 Reject Load and Test Load are not included
 Output Power Rating: 50 kW avg.
 Input Return Loss: 28 dB or less 88.1 to 107.9 MHz (all modes)
 Input Isolation: 30 dB min. over 88.1 to 107.9 MHz
 Approx. Dimensions: See layout drawing next page

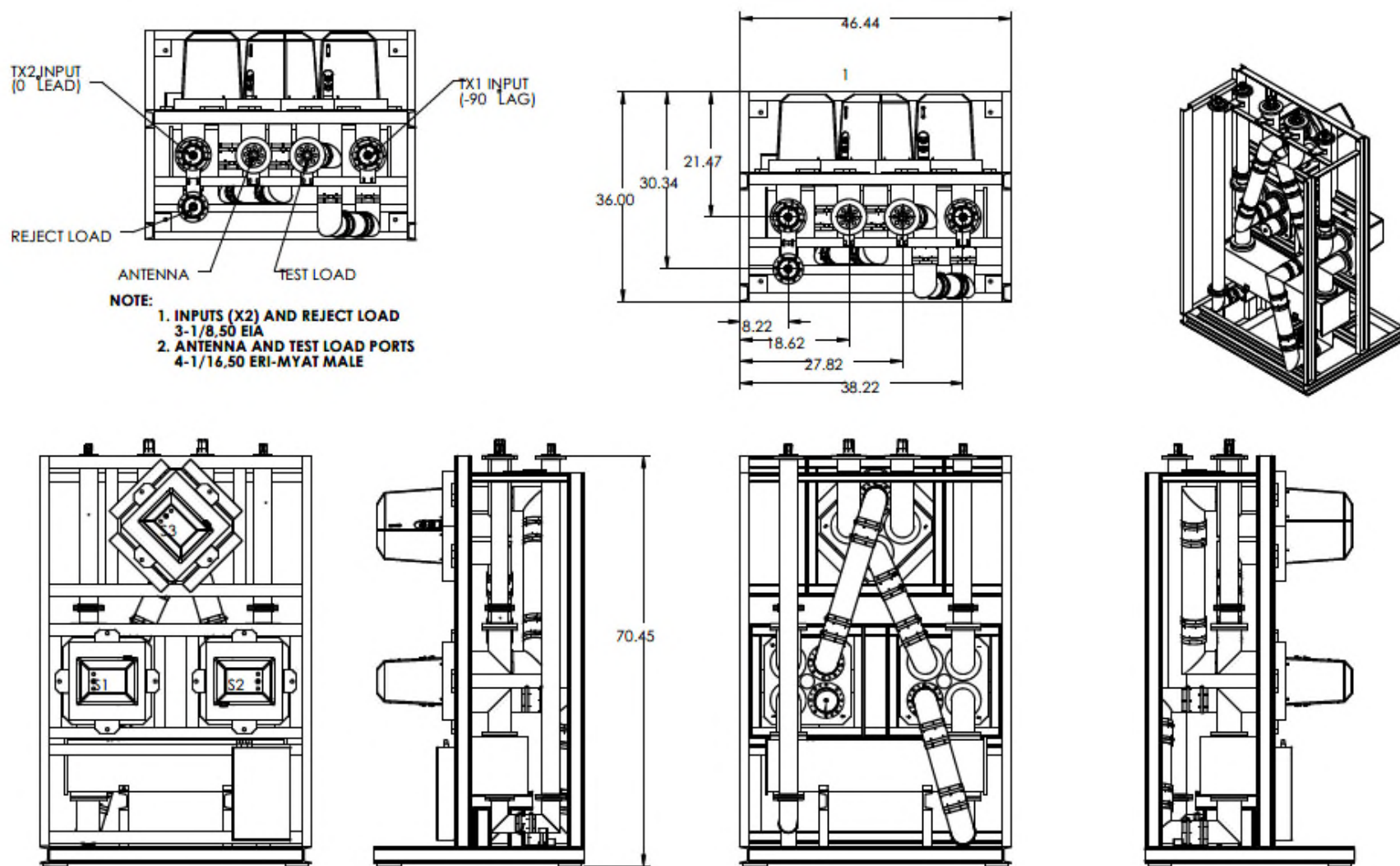
FM Switching Combiner System



50 kW FM Switching Combiner simplified block diagram

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50 kW FM Switching Combiner layout drawing, dimension shown are inches.