

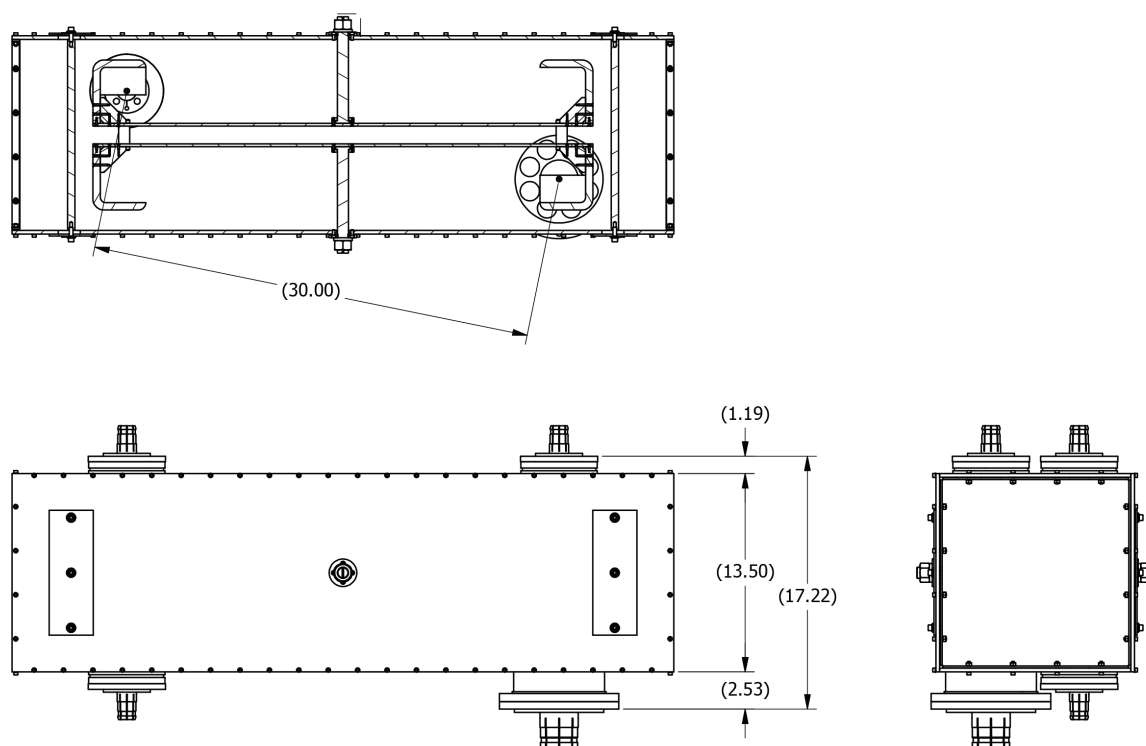
HY0244 Series 3.0 dB FM Hybrid Splitter/Combiners

3 dB, FM Band 88.1 MHz to 108 MHz

The HY0244 is a 3-dB, 90-degree Hybrid Coupler for combining the power of two FM transmitters. The hybrid can also be used as a power divider. All standard models are "cross-over" designs so the inputs, when used as a combiner are on one side of the hybrid and the load port and combined output are on the opposite side. The input port opposite the combined output lags the other input by 90 degrees. The hybrid is available with any combination of 3-1/8-inch, 4-1/16-inch and 6-1/8-inch flanged male ports. They are constructed of lightweight aluminum and can be supplied at coupling ratios other than 3.0 dB. Power handling is dependent on flange selection. Models are available to handle up to 150 kW at the combined output (2 x 75 kW)

Specifications

Output Power Rating:	Dependent on flange connections
Input VSWR:	1.06 : 1 or better
Insertion Loss:	3.01 dB +/- 0.10 dB
Isolation:	30 dB min.
Phase Split:	90 +/- 2 degrees
Connections:	See table below
Dimensions:	See layout below



HY0244 3 dB FM Hybrid. Dimensions shown are inches.

Part Number	Description
HY0244C	4 x 6-1/18-inch EIA Flanged, male
HY0244G	3 x 3-1/8-inch EIA Flanged, male / 1 x 6-1/8-inch EIA Flanged, male
HY0244O	2 x 4-1/6-inch Flanged, male / 1 x 3-1/8-inch EIA Flanged, male / 1 x 6-1/8-inch EIA Flanged, male
HY0244S	3 x 4-1/6-inch Flanged, male / 1 x 6-1/8-inch EIA Flanged, male