

## 70 kW (2 x 35 kW) FM Switchless Combiner

P/N CY300-0FM for 230 VAC supply

P/N CY301-0FM for 115 VAC supply

The Switchless Combiner is rated up to 2 x 35 kW avg. at the inputs for 70 kW avg. at the output port. The output port is a 4-1/16-inch, 50-ohm EIA flanged connection. The RF inputs and load port are 3-1/8-inch, 50 EIA flanged. The system also includes three (3) Directional Couplers and two (2) Voltage Probes.

### Includes:

- (2) 3 dB Hybrid Coupler
  - (1) Motorized Coaxial Phase Shifter (0, 90, 180 degree)
  - (2) Non-Directional Voltage Probe (1-at load port, 1-at output port)
  - (3) Directional Coupler Port (1-at load port, 2-at output port)
  - (1) Interconnect components between above items
  - (1) Floor-mount frame
- Inputs/Load Ports: 3-1/8-inch, 50 ohm EIA flanged  
 Output Port: 4-1/16-inch, 50 ohm EIA flanged (1.631" inner I.D.)  
 Reject (off air) Load is not included

### Please specify at time of order:

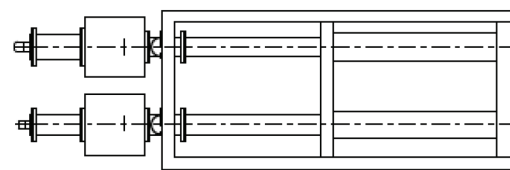
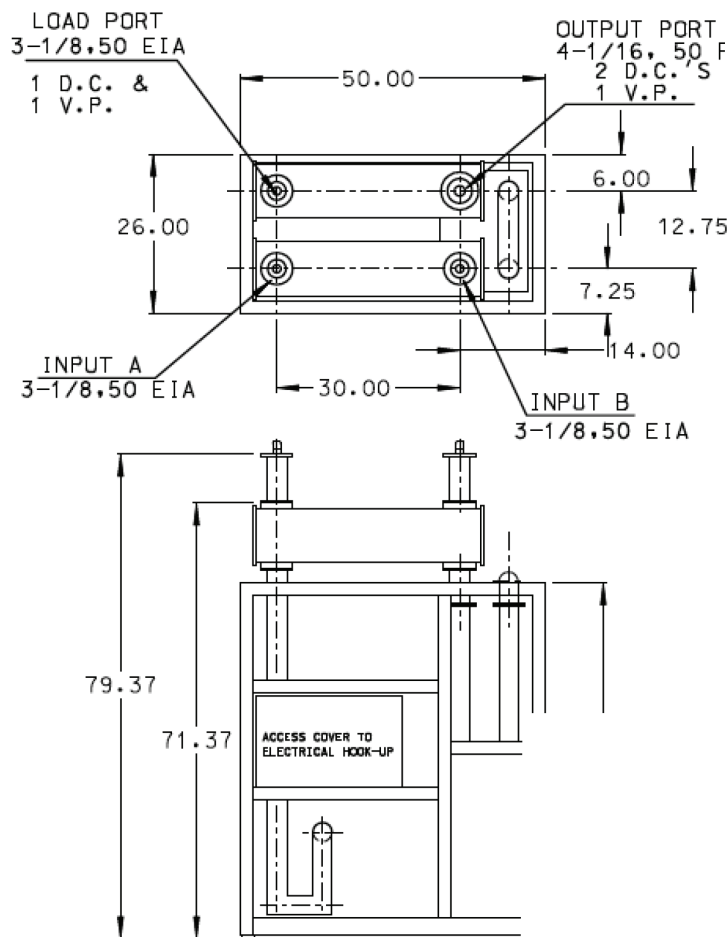
- FM Channel/Frequency
- Desired AC Supply (115 VAC or 230 VAC)

### Specifications

Power Rating:	70 kW avg. (2 x 35 kW average)
Input VSWR:	1.04 to 1 or better (+/- 200 kHz) 1.10:1 during changeover
Insertion Loss:	0.1 dB Max
Input Isolation:	35 dB
Inputs/Load Port:	3-1/8-inch, 50 ohm EIA flanged
Output Port:	4-1/16-inch, 50 ohm EIA flanged (1.631" inner I.D.)
Directional Coupler:	Type "N" female
Voltage Probe:	BNC female
Nominal Coupling Values (unless otherwise specified)	
1-port Directional Coupler at load port:	FWD: 42 dB
1-port Voltage Probe at load port:	52 dB
2-port Directional Coupler at output port:	FWD: 48 dB REF: 48 dB
1-port Voltage Probe at output port:	52 dB
Coupler Directivity:	32 dB min. over channel
Weight:	495 lbs (225 Kg)
Approximate Dimensions:	See outline drawing on page 2

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**NOTE:** INPUTS AND LOAD PORT 3-1/8-50 OHM EIA WITH CONNECTOR  
 OUTPUT PORT 4-1/16, 50

CY300-0FM 220 VAC  
 CY301-0FM 110 VAC

CY300/CY301 FM Switchless Combiner Outline Drawing (dimensions are inches).