



43-05-01A Series Multiband Short-Haul Control Station Combiner

TX RX Systems multi-channel combiners provide frequency agile operation across multiple frequency bands. Control Station Combiners may be used to reduce the number of antennas required on a communications site while also ensuring that predictable radio-to radio isolation is maintained at all times - irrespective of individual radio's Tx or Rx operating mode or antenna isolation characteristics.

Control Station Combiners can significantly reduce tower clutter, loading, and simplify cabling installation at Control Center facilities.

Models will support frequencies from 100 MHz to 1000 MHz and are available in 4, 8, 12, 16, 20, 24, 28 and 32 channel capacities.

PROBLEMS/SOLUTIONS

Many bands on site with frequencies from 100 MHz to 1000 MHz

- ▶ Multiband combiner allows operation in multiple bands

Standardization all sites

- ▶ Advance coupler technology with no need for tuning—control stations can be connected without regard to frequency

Space constraints

- ▶ Low Profile for space efficient installation

Cost reduction

- ▶ Multiple bands can utilize the same combiner for cost reduction

TX RX Systems Inc.

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ELECTRICAL SPECIFICATIONS

Frequency Range	100-1000 MHz
TX/TX or RX/RX Isolation (dB) typical	60 dB typ.
Input Return Loss (dB) Min	28 dB min
Output Return Loss (dB) Min	18 dB min
Operating Temperature (°C)	-30 to +60
Connector 50 Ohm	N-type (F)
Maximum Power Rating (Watts)	50 Watts @ 20% duty on all ports 25 Watts @ 40% duty on all ports 10 Watts @ 100% duty on all ports

Model Numbers	Description	TX or RX Insertion Loss (dB) typical	Net Weight	Dimension WxDxH (inches)	Rack Spaces Used
43-05-01A-04-SH	Control Station Combiner, Short-Haul, 100-1000 MHz, 4 Channel	29.5 dB typ.	5.3 lbs	19.0(W) x 8.50(D) x 1.72(H)	1 RU
43-05-01A-08-SH	Control Station Combiner, Short-Haul, 100-1000 MHz, 8 Channel	32.5 dB typ.	11.6 lbs	19.0(W) x 11.06(D) x 1.72(H)	1 RU
43-05-01A-12-SH	Control Station Combiner, Short-Haul, 100-1000 MHz, 12 Channel	40 dB typ.	21.8 lbs	19.0(W) x 11.06(D) x 6.90(H)	4 RU
43-05-01A-16-SH	Control Station Combiner, Short-Haul, 100-1000 MHz, 16 Channel	40 dB typ.	27 lbs	19.0(W) x 11.06(D) x 6.90(H)	4 RU
43-05-01A-20-SH	Control Station Combiner, Short-Haul, 100-1000 MHz, 20 Channel	40 dB typ.	34.5 lbs	19.0(W) x 11.06(D) x 10.34(H)	6 RU
43-05-01A-24-SH	Control Station Combiner, Short-Haul, 100-1000 MHz, 24 Channel	40 dB typ.	39.6 lbs	19.0(W) x 11.06(D) x 10.34(H)	6 RU
43-05-01A-28-SH	Control Station Combiner, Short-Haul, 100-1000 MHz, 28 Channel	40 dB typ.	47.1 lbs	19.0(W) x 11.06(D) x 13.78(H)	8 RU
43-05-01A-32-SH	Control Station Combiner, Short-Haul, 100-1000 MHz, 32 Channel	40 dB typ.	52.3 lbs	19.0(W) x 11.06(D) x 13.78(H)	8 RU

Optional Channel Upgrade Kits:

43-05-01A-01-KIT	Control Station Combiner, Short-Haul, 100-1000 MHz, 4 Port, used to upgrade from 12-14, 20-24, or 28-32 ports
43-05-01A-02-KIT	Control Station Combiner, Short-Haul, 100-1000 MHz, 4 Port, Shelf, used to upgrade from 16-20 or 24-28 ports
43-05-01A-03-KIT	Control Station Combiner, Short-Haul, 100-1000 MHz, 4 Port, Splitter, Shelf, used to upgrade from 8-12 ports



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