

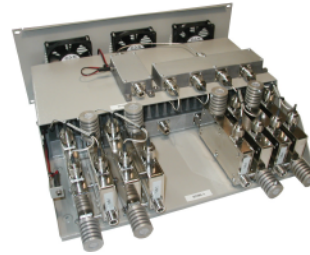
VHF CONTROL STATION COMBINERS

136 - 174 MHz

THWS15 Series

Product Features

- Broadband devices intended to combine several single antenna port radios into a single Tx and single Rx antennas
- Reduces infrastructure size
- Simplifies cabling installations
- Provides radio to radio isolation
- Reduces maintenance costs



VHF Control Station Combiners
THWS15-4B01-1



Specification

THWS15 Series 136-174 Simplex - Duplex Combiners with Rx LNA

Frequency band	136 to 174 MHz (-A: 136 – 144 MHz) (-B: 144 – 150 MHz) (-C: 150 – 158 MHz) (-D: 158 – 166 MHz) (-E: 166 – 174 MHz)
Number of channels	4, model THWS15-4B0-1-x 8, model THWS15-8B0-1-x 16, model THWS15-16B0-1-x
Antenna ports	One for Tx and one for Rx antennas
Tx Insertion loss	8.0dB for 4 channels 11.5dB for 8 channels 15dB for 16 channels
Rx Gain	6dB for 4 channels 2.5dB for 8 channels -1dB for 16 channels
Min Channel to Channel separation	No limitations
Return loss, min, all ports	15dB
Input power, per port, max	50W
Tx to Tx isolation, min	70dB
Rx to Rx isolation, min	70dB
Tx Antenna to Tx isolation, min	50dB
Connectors inputs	N(f)
Connector outputs	N(f)
Temperature range	14° to 122° F • -10° to +50° C
Mounting	Brackets for 19" rack
Cooling	Fan cooled, forced
DC power input	+13.6VDC

VHF CONTROL STATION COMBINERS

136 - 174 MHz

THWS15 Series

Rack units requirement	4 RU for 4 channels 8 RU for 8 channels 16 RU for 16 channels
Height	4 RU for 4 channels 8 RU for 8 channels 16 RU for 16 channels
Width	19 inches • 482 mm
Depth	13.7 inches • 350 mm
Weight	35.3 lbs • 16 kg for 4 channels 70.5 lbs • 32 kg for 8 channels 141 lbs • 64 kg for 16 channels