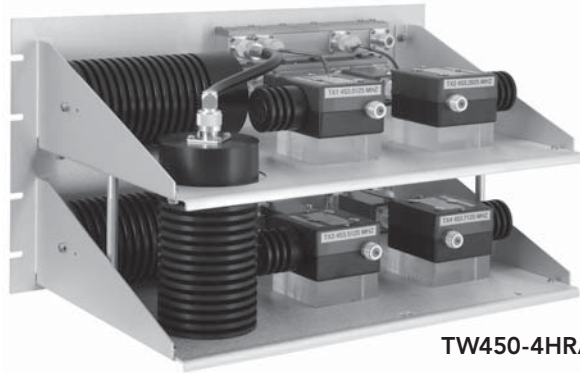


HYBRID COMBINERS 2 OR 4 CHANNELS

Telewave Hybrid Combiners allow transmitter combining with close frequency spacing that is not practical for cavity-ferrite combiners. Combining adjacent channels is possible, even two transmitters on the same frequency. These combiners are configured in sets of two or four channels and maintain reasonable insertion losses.

Telewave hybrid combiners use a minimal amount of 19" rack space. Two channel units require 5.25" rack space, and 10.5" for each four channel combiner. Hybrids are broad band devices, and will operate anywhere over their specified frequency range. There is no tuning required during installation. Each channel is equipped with a harmonic filter to maintain spurious products below the FCC minimum.

The basic hybrid design can be integrated into any standard Telewave cavity-ferrite combiner system to provide outstanding flexibility in frequency selection. High power is available in all frequency bands. Contact Telewave for custom integration and high power applications.



TW450-4HRA1

MODEL NUMBER	FREQUENCY RANGE (MHz)	ISOLATION (dB) TX-TX	ISOLATION (dB) ANT-TX	INSERTION LOSS (dB)
TWO CHANNEL WITH SINGLE ISOLATORS - PANEL SIZE 5.25" H x 19" W				
TW150-2HRA1	118-174	70	33	3.8
TW220-2HRA1	216-250	70	33	3.8
TW450-2HRA1	406-512	70	33	3.7
TW760-2HRA1	763-869	70	33	3.6
TW900-2HRA1	806-960	70	33	3.6
TWO CHANNEL WITH DUAL ISOLATORS - PANEL SIZE 5.25" H x 19" W				
TW150-2HRB1	118-174	100	65	4.0
TW220-2HRB1	216-250	100	65	4.0
TW450-2HRB1	406-512	100	65	3.9
TW760-2HRB1	763-869	100	65	3.8
TW900-2HRB1	806-960	100	65	3.8
FOUR CHANNEL WITH SINGLE ISOLATORS - PANEL SIZE 10.5" H x 19" W				
TW150-4HRA1	118-174	70	33	6.8
TW220-4HRA1	216-250	70	33	6.8
TW450-4HRA1	406-512	70	33	6.8
TW760-4HRA1	763-869	70	33	6.7
TW900-4HRA1	806-960	70	33	6.7
FOUR CHANNEL WITH DUAL ISOLATORS - PANEL SIZE 10.5" H x 19" W				
TW150-4HRB1	118-174	100	65	7.2
TW220-4HRB1	216-250	100	65	7.2
TW450-4HRB1	406-512	100	65	7.1
TW760-4HRB1	763-869	100	65	7.0
TW900-4HRB1	806-960	100	65	7.0
SPECIFICATIONS				
Input power (std. / opt.)	100 / 150 watts per channel			
Harmonic attenuation (min.)	65 dB			
Temperature range	-30°C to +60°C			
Connector	N Female			
Weight	20-50 lb. depending on model			