

TC860 CERAMIC ENHANCED TRUNKING COMBINER

The Telewave Ceramic Enhanced 860 MHz Trunking Combiner brings ceramic technology to trunking system operators. The TC860 combiner requires only 7 inches of rack space, and the ceramic cavities provide the same performance as conventional, eight-inch 3/4-wavelength cavities. The Telewave Ceramic Enhanced combiner is the best choice when site space is at a premium.

Fully temperature compensated components ensure frequency stability throughout the entire temperature range. The unique design also allows the cavity to be tuned under the full 80 watts of input power.

Ceramic Enhanced Resonators allow combining of channels as close as 500 KHz with reasonable insertion loss. To fully complement this compact combiner, the PM10C2S-1C wattmeter panel requires only 1 rack unit of panel space. The wattmeter panel is a standard feature with this combiner, which provides convenient transmitter keying and continuous monitoring of combiner performance. If per-channel monitoring is required, additional power monitors are typically mounted on a separate 2RU panel.

The TC860 combiner is field expandable to 10 channels with pretuned expansion kits. This building block concept allows the installation of new channels without the need for specialized test equipment.



SPECIFICATIONS	
Frequency range	851-869 MHz
Channels	1-5 channels into 1 antenna
Channel separation (min)	500 KHz
Input power (max)	80 watts per channel
Impedance / Input VSWR (typ.)	50 ohms / 1.25:1
Insertion loss per ch. (typ.)	2.2 dB - 5 ch. at 1 MHz spacing 2.8 dB - 10 ch. at 500 KHz spacing
TX-to-TX isolation (typ.)	80 dB
Antenna to TX isolation (typ.)	75 dB
2nd harmonic suppression (typ.)	90 dB
Cavity size	8" diameter ceramic / 1/4 wave
Operating temperature	-0°C to +50°C
Mounting / Connectors	19" rack mount / N Female
Panel dimensions (HWD) in. (cm)	7 x 19 x 13 (17.8 x 48.3 x 33)
Weight lb. (kg)	36 (16.3) 5 ch.