

M107-250, 350, 450 TRM SERIES

EXPANDABLE LOW LOSS TRANSMITTER COMBINERS

Telewave M107-250, -350, and -450 Low Loss Combiners are designed for new, narrowband technologies. All components in these field-expandable combiners are completely passive, with the exception of the optional solid-state receiver distribution amplifier. The compact layout is enclosed in a rugged steel frame.

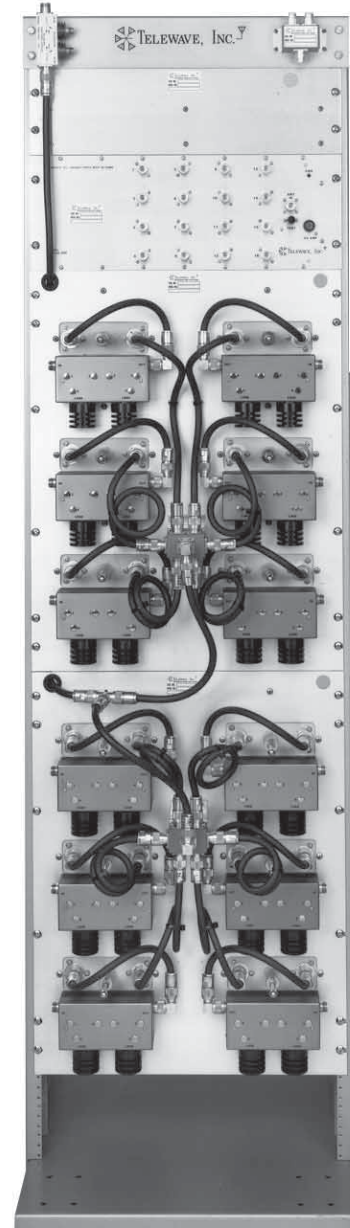
Optional power monitoring for each channel is available, as well as remote keying for each transmitter. The PM10C2S-1C wattmeter panel uses only 1.75" of rack space.

An optional receiver system can be built around the Telewave compact preselector series, or full-size cavities as needed. Depending on the application, a 4 or 6 cavity compact preselector may be mounted in the upper portion of a 72" or 84" rack, and a 1RU receiver panel with 8 or 16 channels.

FEATURES

- ALL TUNING FROM THE FRONT
- UP TO 14 TRANSMITTERS INTO ONE ANTENNA
- LESS THAN 3 dB INSERTION LOSS
- ALL CONNECTIONS AT TOP OF RACK
- COMPLETELY SELF CONTAINED
- LOW COST PER CHANNEL
- FULLY FIELD TUNABLE
- 80 dB TX TO TX PROTECTION

To meet international requirements, special configurations and expansion kits are available. A Pass-Reject duplexer, and Pass-Cavity preselector are also available.



Shown with Optional Receiver Distribution Panel

SPECIFICATIONS

Frequency ranges	200-512 MHz
Channels	1-14 channels into 1 or 2 antennas
Channel separation (min)	250 KHz
Input power (std. / opt.)	100 / 150 watts per channel
Impedance / Input VSWR (typ.)	50 ohms / 1.25:1
Insertion loss per ch. (typ.)	3.25 dB at 275 KHz spacing
TX-to-TX isolation (typ.)	80 dB
Antenna to TX isolation (typ.)	75 dB
2nd harmonic suppression (typ.)	90 dB
Cavity size	7" diameter / 1/4 wave
Operating temperature	-30°C to +60°C
Mounting / Connectors	19" rack mount / N Female
Rack dimensions (HWD) in. (cm)	72 x 20 x 26 (183 x 51 x 66) (Depth varies with frequency)
Weight lb. (kg)	200 (91)