

## M101450-TRM193Q SERIES

### LOW LOSS UHF COMBINER FOR CLOSE SPACING

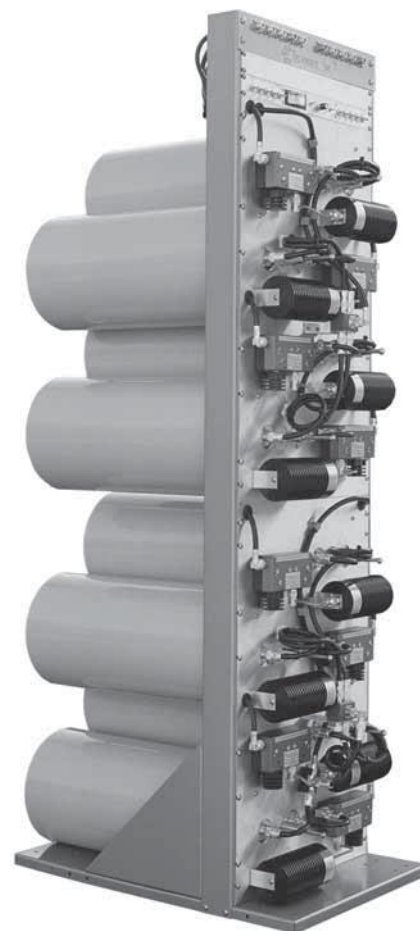
The M101450-8TRM193Q is a high power, high-capacity UHF combining system. The system combines up to eight transmitters using 10-inch, high "Q",  $\frac{3}{4}$ -wave low-loss cavities mounted on a standard 19" x 72" rack. This design provides as much as 75 dB isolation for each transmitter, with spacing as close as 175 KHz. Each channel has a separate dual isolator, and all tuning is accessible from the front panel.

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

The optional receiver system is built around Telewave.io UHF preselectors. Depending on the application, the TPCP-4544, 4546, or 4548 preselector may be integrated directly into the upper

portion of the M101450 84" rack. A 1RU receiver panel with 8 or 16 channels also mounts straight into the rack, preserving valuable site floor space.

With new narrowband channel assignments, proper filtering is even more critical. The M101-450- TRM193Q series allows operators of high-density UHF systems to take advantage of new technology and enhance the performance of existing systems.



**OPTIONAL 100-WATT  
LOADS SHOWN**

SPECIFICATIONS	
Frequency range	400-512 MHz
Channels	1-8 channels into 1 or 2 antennas
Channel separation (min)	175 KHz
Input power (max)	150 watts per channel
Impedance / Input VSWR (typ.)	50 ohms / 1.25:1
Insertion loss per ch. (typ.)	3.25 dB - 5 ch. at 250 KHz spacing 3.75 dB - 5 ch. at 200 KHz spacing
TX-to-TX isolation (typ.)	80 dB
Antenna to TX isolation (typ.)	75 dB
2nd harmonic suppression (typ.)	90 dB
Cavity size	10" diameter / $\frac{3}{4}$ wave
Operating temperature	-30°C to +60°C
Mounting / Connectors	19" rack mount / N Female
Rack dimensions (HWD) in. (cm)	84 x 20 x 26 (214 x 51 x 66)
Weight lb. (kg)	250 (113.5)