

M101450-TRM193Q SERIES

LOW LOSS UHF COMBINER FOR CLOSE SPACING

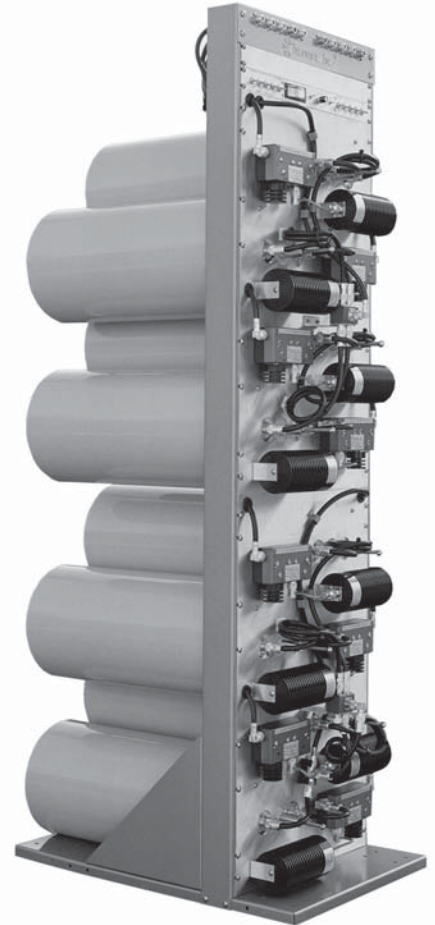
The M101450-8TRM193Q is a high power, high capacity UHF combining system. The system combines up to eight transmitters using 10-inch, high "Q", 3/4-wave low-loss cavities mounted on a standard EIA 19" x 72" rack. This new design provides as much as 75 dB isolation for each transmitter, with spacing as 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 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.

As frequency "re-farming" continues, and new narrowband channel assignments become more common, channel spacing will be even more critical. The M101450-8TRM193Q allows operators of high-density UHF systems to take advantage of new technology, while preserving and enhancing the performance of existing equipment.



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 / 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)